# GUAM PUBLIC UTILITIES COMMISSION REGULAR MEETING December 2, 2021 GCIC CONFERENCE ROOM, GCIC BUILDING, HAGATNA

#### **MINUTES**

The Guam Public Utilities Commission [PUC] conducted a special meeting commencing at 6:38 p.m. on December 2, 2021, pursuant to due and lawful notice. Commissioners Johnson, Perez-Camacho, Montinola, McDonald, Flores-Brooks, and Guerrero were in attendance. The following matters were considered at the meeting under the agenda included as *Attachment "A"* hereto.

# 1. Approval of Minutes

The Chairperson announced that the first item of business on the agenda was approval of the minutes of October 28, 2021. ALJ Horecky stated that these minutes will be available for review at the PUC's next meeting.

# 2. Guam Power Authority

The Chairperson announced that the next item of business was Guam Power Authority [GPA] Docket 20-09, Ratification of Preliminary Order by Chairman Johnson Suspending the Effectiveness of GPA Net Metering Program Interconnection Policy AP-072, ALJ Report, and Proposed Order. ALJ Horecky stated that the Commissioners were provided with copies of the preliminary order that Chairman Johnson issued on November 2, 2021, that this matter involves a net metering policy that GPA implemented on September 15, 2021 that imposed a new requirement that any new net metering customer must include battery storage or an energy storage system in their net metering systems, that in April of this year, in this docket, the PUC ordered GPA not to implement this new net metering policy requiring battery storage for new customers or either to implement a new rate until GPA provided the required by the PUC, that GPA did not provide those studies prior to implementing the net metering policy, that the Chairperson issued the preliminary order because there were three complaints about the new policy indicating that the policy had not been approved by the PUC, that the preliminary order prevents GPA from proceeding with the implementation of the policy, that policy violates the existing PUC order in this docket, and he recommended that the Commissioners ratify the Chairperson's preliminary order. GPA GM Benavente stated that GPA did not purposely try to violate any orders, that the net metering is new and that it is being implemented or the first time, that GPA agrees that it has to provide the PUC with the studies, that the current pandemic emergency has

hindered GPA's ability to complete these studies while GPA continues to experience adverse issues with net metering, that GPA plans on providing the studies to the PUC in around February to March, 2022, that GPA continues to suffer from unbalanced voltage as a result of the net metering, and that GPA is open to working with the PUC to address the adverse issues GPA is experiencing from net metering. A discussion ensued between the Chairperson, Commissioners Guerrero, Montinola, and Flores-Brooks, and GPA GM Benavente concerning when the required studies would be completed, the impact of private solar power on GPA's network, and putting the studies in laymen's terms so that the Commissioners can understand the issues. Commissioner Montinola made a motion to ratify the preliminary order which was seconded by Commissioner Perez-Camacho, and the motion passed unanimously.

The Chairperson announced that the next item of business was GPA Docket 22-02, Petition for Approval of Procurement of the Performance Management Contract [PMC] for the Management, Operation, and Maintenance of GPA Fuel Farm Bulk Storage Facility, ALJ Report, and Proposed Order. ALJ Horecky stated that the present PMC for the fuel farm bulk storage facility is IP&E Guam whose contract will expire on September 30, 2022, that GPA is requesting to solicit for a new PMC whose contract will have a three-year base period contract which would be October 1, 2022 through September 30, 2025, and then two additional 1-year contract extension terms which would require the mutual consent of the parties, that GPA's request is well supported, and he recommended that the PUC approve the petition. GPA GM Benavente stated that this is a critical contract for GPA and that the fuel farm has to be improved and be well-run. A discussion ensued between the Chairperson, Commissioners Montinola, Perez-Camacho, ALJ Horecky, and GPA GM Benavente concerning the role of the PMC in GPA to switch from the current three fuel types it using to one fuel type, the reason why the contract increased in 2022 by \$117,000, whether GPA was expecting to receive competitive bids from more than one bidder, and the options contained in the draft solicitation. Commissioner Guerrero moved to approve the proposed order granting the petition which motion was seconded by Commissioner Montinola, and the motion passed unanimously.

The Chairperson announced that the next item of business was GPA Docket 22-03, GPA's Filing for FY21 Approved Contracts & Obligations. ALJ Horecky stated that this filing was informational and it gives the contract review matters that GPA brought before the PUC.

# 3. The Guam Waterworks Authority

The Chairperson announced that the next item of business was Guam Waterworks Authority [GWA] Docket 22-03, Petition to Approve Contract Amendments with Duenas, Camacho and Associates Inc. to complete Phase 3 Tank Inspection and Repairs, District Metering and Pressure Zone Realignment, Deep Wells GAC System Installation and Rehabilitation, and Waterline Replacements, ALJ Report, and Proposed Order. ALJ Alcantara stated that this matter concerns GWA's June 17, 2019 Indefinite Delivery, Indefinite Quantity Contract with Duenas Camacho & Associates for Project and Construction Management Services, that in October, 2021 the Guam Consolidated Commission on Utilities [CCU] approved an additional \$2 million of funding for this contract for: (1) Project and Construction Management for Phase 3 Tank Inspection and the Repairs; (2) Project and Construction Management of District Metered Areas and Pressure Zone Realignment; (3) Construction Management of Deep Wells A-23 and A-25; (4) GAC Filter System Installation; (4) Construction Management for the Rehabilitation of Ground Waterwells A-02, A-12, D-05, and F-03; and (5) Construction Management for the Water Line Replacement Construction Project, that GWA also added a contingency of \$150,000.00 to be budgeted as part of the \$2 million requested, that GWA's bond funds, and he recommended that the PUC grant the petition and allow GWA to increase the contract amount by \$1,681,058.00 to pay for the cost of this work. GWA GM Bordallo stated that approving the petition is in line with the Commission's previous order to GWA to eliminate the PMO contract and to spread the similar services around the local consultants and that this contract was one of the vehicles that GPA used to replace the PMO. A discussion ensued between the Chairperson, Commissioners Guerrero, Flores-Brooks, Montinola, and Perez-Camacho, and GWA GM Bordallo concerning the two water wells that have PFOS contamination, whether the military bases on Guam have problems with PFOS contamination in their water systems, the amount of water production from Fena Lake, whether it is feasible to bring GWA's 20 water wells that are not in service back into service, whether these projects are good candidates for federal funding, the cost increase to this IDIQ contract, the \$846,164.00 current value of the contract, the \$1.68 million increase to that current value, the future costs of this contract, the estimate of what the total cost of this contract might be, whether it was prudent to approve amendments that cost more than the original amount of the contract, the cost-savings obtained by GWA through negotiations with the contractor, and whether the pandemic emergency has resulted in an increase in the price of this contract. Commissioner Perez-Camacho moved to approve the propose order granting the petition which motion was seconded by Commissioner McDonald, and the motion passed with the Commissioner Guerrero making the only opposing vote.

The Chairperson announced that the next item of business was GWA Docket 22-04, Petition to Approve Contract Change Order No. 2 with Giant Construction Corp. for the

Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement Project, ALJ Report, and Proposed Order. ALJ Horecky stated that this matter involved a change order in the amount of \$558,135.00, that the PUC approved the original contract up to an amount of \$2,140,292,000 in April, 2021, that since that time there have been two changes, first, was the increased cost of an archeological study of the area which did not require PUC approval because it was within the contingency amount, and that this Change Order Number 2, to upgrade existing small-diameter galvanized service laterals currently connected to the old 6-inch ACP line serving several homes along Taison Road with a large 6-inch main to improve service levels would cost about \$558,000, that this is a legitimate part of the contract, and he recommended that the PUC grant the petition and that it would cost \$2,520,173. GWA GM Bordallo stated that there are 24 homes currently served that would benefit from this project and potentially an additional 14 lots that are currently undeveloped, that it would eliminate galvanized piping which is another source of peaks and losses within our distribution system and for which we have specific program established under our 20-year master plan to address these galvanized piping issues, that it will provide additional fire hydrants that currently do not exist on Taison Road, and that if GWA were to bid this out, it would be likely much more expensive. A discussion ensued between the Chairperson, Commissioners Flores-Brooks, and Montinola, and GWA GM Bordallo and GWA Legal Counsel Rojas, concerning the existing water lines and meters along Taison Road, the reasons why Taison Road was excluded from other projects, and the location of the new PVC pipes. Commissioner Perez-Camacho made a motion to approve the proposed order granting the petition which motion was seconded by Commissioner Montinola, and the motion passed with Commissioner Guerrero making the only opposing vote.

#### 4. Administrative Matters

The Chairperson announced that the next item of business was the PUC Financials. Commissioner Flores-Brooks stated that because there were still some errors the financials are not completed yet, and they are resolving the accounts payable, and that the financials are more for your information. A discussion ensued between the Commissioners and the PUC's Palomo regarding the ongoing efforts to reconcile the accounts.

There being no further business, the Commissioners moved to adjourn the meeting.

Jeffrey Johnson Chairperson

# ATTACHMENT A THE GUAM PUBLIC UTILITIES COMMISSION NOTICE OF PUBLIC MEETING

**NOTICE IS HEREBY GIVEN** that the Guam Public Utilities Commission [PUC] will conduct a special business meeting, commencing at 6:30 p.m. on December 2, 2021, Suite 202, GCIC Building, 414 W. Soledad Ave., Hagatna.

The following business will be transacted:

# Agenda

- 1. Call to Order
- 2. Approval of Minutes of October 28, 2021
- 3. Guam Power Authority
  - GPA Docket 20-09, Ratification of Preliminary Order by Chairman
  - Johnson Suspending the Effectiveness of GPA Net Metering Program Interconnection Policy AP-072, ALJ Report, and Proposed Order
  - GPA Docket 22-02, Petition for Approval of Procurement of the Performance Management Contract [PMC] for the Management, Operation and Maintenance of the GPA Fuel Farm Bulk Storage Facility, ALJ Report, and Proposed Order
  - GPA Docket 22-03, GPA's Filing for FY21 APPROVED CONTRACTS & OBLIGATIONS (for Informational Purposes Only)
- 4. Guam Waterworks Authority
  - GWA Docket 22-03, Petition to Approve Contract
     Amendments with Duenas, Camacho and Associates Inc. to complete Phase 3 Tank Inspection and Repairs, District Metering and Pressure Zone Realignment, Deep Wells GAC System Installation and Rehabilitation, and Waterline Replacements, ALJ Report, and Proposed Order

 GWA Docket 22-04, Petition to Approve Contract Change Order No. 2 with Giant Construction Corp. for the Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement Project, ALJ Report, and Proposed Order

#### 5. Administrative Matters

PUC Financials

# 6. Adjournment

Due to the current public health emergency, all persons attending the meeting will be required to wear masks. Social distancing protocols will be observed. Further information about the meeting may be obtained from the PUC's Administrator Lou Palomo at 472-1907. The meeting will be broadcast live on the PUC website at guampuc.com. Those persons who require special accommodations, auxiliary aids, or services to attend the meeting should also contact Ms. Palomo.

This Notice is paid for by the Guam Public Utilities Commission

#### BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN THE MATTER OF:	) GPA DOCKET 20-09
	)
GUAM POWER AUTHORITY	)
PETITION FOR THE CREATION OF AN	) ORDER
ENERGY STORAGE RATE SCHEDULE	)



This matter comes before the Guam Public Utilities Commission ["PUC"] upon the PRELIMINARY ORDER signed by Chairman Jeffrey C. Johnson on November 2, 2021, in this Docket. A true and correct copy of said PRELIMINARY ORDER is attached hereto as Exhibit "1" and incorporated herein by reference.

On September 15, 2021, Guam Power Authority implemented a new Net Metering Program Interconnection Policy, AP-072. The policy imposed a new requirement that any new net metering customer must include battery storage or an Energy Storage System in their net metering systems.

In this Docket, 20-09, the PUC previously ordered that GPA may not, until certain prerequisites were met, require new net metering ["NM"] customers to include battery storage (i.e. Frequency Control Capability or an Energy Storage System (ESS)) in their systems. The PUC found that GPA had not justified such a requirement because it had not established "clear cost causation of NM customers impacting grid reliability." Before the PUC would consider such changes, GPA was required to complete certain studies, including a distribution system impact study and an independent study determining the cost of grid and other services used by NM customers, which identifies in detail the value of those services to the NM customers.<sup>1</sup>

In the PRELIMINARY ORDER, the Chairman found that GPA, by failing to conduct these studies prior to implementing the new policy and by not obtaining PUC review and approval for the new requirement, violated the PUC Order in GPA Docket 20-09. The Chairman also found that the PUC is required to approve rules and

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<sup>&</sup>lt;sup>1</sup> PUC Order, GPA Docket 20-09, dated April 29, 2021.

regulations for the Net Metering Program, including the implementation of Net Metering Program Interconnection Policies before policies such as AP-072 are effective.<sup>2</sup>

The PUC received three complaints concerning GPA's implementation of the New Net Metering Policy, AP-072. On November 2, 2021, the Chairman certified that the PUC action on this matter, as well as temporary suspension of the effectiveness of Policy AP-072, could not await further Commission action at the next scheduled meeting on December 2, 2021. He further determined that the implementation of this policy could harm businesses in the solar industry and have a detrimental impact on the government, commercial and residential market for solar energy.<sup>3</sup>

The Chairman of the PUC is authorized, pursuant to 12 GCA §12105(b), to discharge any of the duties of the Commission or to exercise its powers ("except a final determination affecting a public utility"), upon designation by the Commission. Prior to issuance of the Preliminary Order, all the Commissioners designated and authorized the Chairman to issue the Preliminary Order on behalf of the Commission, in accordance with Administrative Resolution dated April 11, 2003.

Having considered the PRELIMINARY ORDER of the Chairman dated November 2, 2021, and the recommendation of the ALJ, hereby **ORDERS** as follows:

- 1. The Chairman's PREMILINARY ORDER is hereby ratified and approved, and the Commission adopts said ORDER as its own.
- 2. The implementation of Policy No. AP-072, issued 08/04/2021 and effective on September 15, 2021, is suspended pending review by the Guam Public Utilities Commission.
- 3. The PUC shall conduct further proceedings in this Docket and will consider the three complaints regarding GPA Net Metering Program Interconnection Policy. GPA shall have an opportunity to demonstrate that it has complied with the requirements of the Order in this docket for approval of Policy AP-072, and to present any other evidence or arguments as to why it believes the policy should be approved.

<sup>&</sup>lt;sup>2</sup> PRELIMINARY ORDER OF CHAIRMAN JOHNSON, at pgs. 3-4.

<sup>&</sup>lt;sup>3</sup> Id., at p. 4.

4. The ALJ is ordered to undertake and carryout such further proceedings in this Docket as are appropriate and necessary.

**SO ORDERD** this 2<sup>nd</sup> day of December 2021.

Jeffrey C. Johnson

Chairman

Joseph M. McDonald

Commissioner

Peter Montinola Commissioner

Pedro S.N. Guerrero Commissioner Rowena E. Perez-Camacho Commissioner

Michael A. Pangelinan

Commissioner

Doris Flores Brooks

Commissioner

#### BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN THE MATTER OF:	)	GPA DOCKET 20-09  Ablic Villities Commission GUAM  6 1 1 8
GUAM POWER AUTHORITY	)	
PETITION FOR THE CREATION OF AN	)	PRELIMINARY ORDER
ENERGY STORAGE RATE SCHEDULE	1	

#### **INTRODUCTION**

This matter comes before the Guam Public Utilities Commission ["PUC"] upon the filing of three complaints against GPA concerning the implementation of a policy which requires, *inter alia*, that all new net metering customers must have battery storage systems as a part of their net metering systems. The complaints, by Micronesia Renewable Energy, Inc, the Office of Senator Clynton E. Ridgell, and Pacific Solar & Photovoltaics, Inc., are attached hereto respectively as Exhibits "1", "2", and "3".

In general, the complaints allege that, effective September 15, 2021, GPA Management implemented a new policy, Net Metering Program Interconnection Policy AP-072 ["Policy AP-072"], that imposes substantial requirements upon new net metering customers, including a requirement that all new net metering customers must have battery storage (ESS) in their net metering systems. Their contention is that GPA did not have the authority to change the NEM policy and impose these requirements without prior PUC review and authorization.

The Administrative Law Judge of the PUC provided notice to GPA of the complaints and requested that GPA agree to suspend the effectiveness of the Policy AP-072 pending PUC review.<sup>2</sup> To date GPA has not responded to the ALJ's letter.

This Order is issued by the Chairman of the PUC, acting on behalf of the PUC, pursuant to 12 GCA §12105(b). The Chairman certifies that processing and resolution of this matter, as well as temporary suspension of the effectiveness of Policy AP-072, cannot

<sup>1</sup> See Exhibits 1, 2, and 3 attached hereto.

<sup>&</sup>lt;sup>2</sup> See Letter from PUC ALJ Fred Horecky to GPA Legal Counsel Graham Botha dated October 27, 2021, attached hereto as "Exhibit "4".

await Commission action at the next scheduled meeting on December 2, 2021.

#### **BACKGROUND**

GPA Management adopted its new Net Metering Program Interconnection Policy, AP-072, effective September 15, 2021.<sup>3</sup> There has never previously been any requirement that net metering customers include battery storage or ESS in their systems.

In this Docket, GPA Docket 20-09, the PUC previously ordered that GPA may not at the present time require new net metering customers to include battery storage (i.e., Frequency Control Capability or an Energy Storage System (ESS)) in their systems. In its Petition in this Docket dated March 10, 2020, GPA had requested that new net metering customers be required to install Frequency Control Capability/Energy Storage Systems (ESS) on new solar PV or wind systems; alternatively, new customers could pay an Energy Storage Rate to GPA.4

In its Resolution in support of GPA's Petition, the Guam Consolidated Commission on Utilities stated that, after June 1, 2020, "all new utility-scale, and NEM solar PV and wind turbine systems must have Frequency Control Capability or ESS in order to be tied to the island power grid." The PUC denied GPA's requests to require new customers to install an Energy Storage System (batteries) or to pay a new Energy Storage Rate. The PUC found that GPA had not justified imposing a requirement that new customers have battery storage in their net metering systems. GPA had not established "clear cost causation of NM customers impacting grid reliability." GPA had not completed a distribution system impact study, an independent study determining the cost of grid services used by NM customers, and had not implemented a battery storage rebate program. A true and correct copy of the PUC Order dated April 29, 2021, is attached hereto as Exhibit "6".

<sup>3</sup> Net Metering Program Interconnection Policy AP-072, attached hereto as Exhibit "5".

<sup>&</sup>lt;sup>4</sup> GPA Petition for Creation of New Energy Storage Rate, GPA Docket 20-09, dated March 10, 2020, at p. 1.

<sup>&</sup>lt;sup>5</sup> Guam Consolidated Commission on Utilities Resolution No. 2020-01, Authorizing Management to Require All Future Utility-Scale and Net Energy Metering Solar Photovoltaic (PV) and Wind Turbine Systems to have Frequency Control Capability or Energy Storage System (ESS) in order to be Tied into Island Power, Grid, adopted February 21, 2020.

#### **DETERMINATIONS**

GPA management did not seek the review or approval by PUC of Net Metering Program Interconnection Policy No. AP-072 prior to implementing the policy. From the inception of the Net Metering Program, the Guam Legislature placed the PUC in charge of promulgating the necessary rules and regulations for the implementation of the Net Metering Program. Public Law No. 27·132, enacted December 31, 2004, Section 2, states: "The Public Utility Commission shall promulgate all necessary rules and regulations to the implementation of the program within one hundred twenty (120) days from the enactment of this Act."

Since the commencement of the Net Metering Program, GPA has recognized that prior PUC review and approval is necessary for its Net Metering Program Interconnection Policy. The PUC is required to approve GPA's Standard Interconnection Agreement for Net Metering at facilities and the Net Metering Program Interconnection Policy. In its Order dated February 27, 2009, in Docket No. 08-10, the PUC approved GPA's initial Net Metering Interconnection Policy, AP-0, and the Interconnection Agreement, and even required GPA to make certain changes to the Net Metering Program Interconnection Policy. See Exhibit "7" attached hereto. The Guam Public Utilities Commission is also authorized to approve the rate structure for the net metering program. 12 GCA §8506.

The PUC is responsible for the implementation of the rules and regulations for the Net Metering Program. Public Law 27-132. GPA Net Metering Program Interconnection Policy, AP-072, has not been reviewed or approved by the PUC. Such policy is not valid or effective and cannot require new customers to have battery or Energy Storage Systems. GPA Net Metering Program Interconnection Policy, AP-072, also violates the PUC Order in this Docket (Exhibit "6"). The Order prohibits GPA from requiring new customers to install Energy Storage Systems or batteries.

The PUC specifically found that a requirement for battery storage had not been

<sup>&</sup>lt;sup>6</sup> PUC Order, Docket No. 08-10, In the Matter of Net Metering (pursuant to P.L. 27-132 and 29-62), dated February 27, 2009, attached hereto as Exhibit "7".

justified by a study or evidence demonstrating that net metering customers were responsible for instability to the power system.

Net Metering Interconnection Policy No. AP-072 cannot be implemented or be effective unless and until the PUC approves such Policy. GPA has implemented a policy, a requirement that all new systems have battery storage, which violates the present PUC Order in GPA Docket 20-09. Suspension of the Policy is justified, as the complainants have alleged that the requirement of battery storage for all new net metering systems would "kill the Government, commercial and ...residential market for solar energy." Complainants have indicated a possibility that the policy could harm their businesses.

#### **CONCLUSION**

The Guam Public Utilities Commission hereby issues the following PRELIMINARY ORDER in this Docket:

- The implementation of Policy No. AP-072, issued 08/04/2021 and effective on September 15, 2021, is hereby suspended pending review by the Guam Public Utilities Commission.
- 2. The PUC shall conduct further proceedings in this Docket and will consider the three complaints regarding GPA Net Metering Program Interconnection Policy. GPA shall have an opportunity to demonstrate that it has complied with the requirements of the Order in this docket for approval of Policy AP-072, and to present any other evidence or arguments as to why it believes the policy should be approved.
- The ALJ is ordered to undertake and carryout such further proceedings in this Docket as are appropriate and necessary.

Dated this 2nd of November, 2021.

Jeffrey C. Johnson

Chairman

Guam Public Utilities Commission

#### Fred Horecky

From:

Jeff Voacolo <jvoacolo@micronesiarenewableenergy.com>

Sent:

Thursday, October 14, 2021 8:43 PM

To:

Fred Horecky

Cc: Subject: Lou Palomo; Cynthia Brown

Re: NEWLY APPROVED GPA NET POLICY PROGRAM

# Fred,

The industry was giving this NEM amendment without any notice of implementation. Are we expected to change our business model overnight. The battery requirement is extremely aggressive by any US stateside standard. To require the amount of backup kills the Government, commercial and really the residential market for solar energy. The price points do not work now at all. I believe this to be an unfair labor practice from the utility to place undue burden on a growing Industry that this government agency sees as a competitor to their business model. The utility is to help the community not place burden on the community,

Fred you know the law a lot better than we do and the way we are reading this is they do not have the authority to change the NEM without the PUC authority. I believe they are far exceeding their authority at a time when the community and the administration is sidetracked with a pandemic,

Thank you,

Jeff

On Thu, Oct 14, 2021 at 10:50 AM Fred Horecky < horeckylaw@teleguam.net > wrote:

Hi Jeff:

I will look into this matter. Can you let me know any specific objections you have to the Revised Net Metering Program?
Thank you.
Sincerely,
Fred Horecky
Chief Administrative Law Judge
Guam Public Utilities Commission
c/o Law Office of Frederick J. Horecky
643 Chalan San Antonio, Ste. 102B
Tamuning, Guarn 96913
(w)646-8274/5
(f) 646-8403
horeckylaw@teleguam.net
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From: Jeff Voacolo <a href="mailto:liveacolo@micronesiarenewableenergy.com">liveacolo@micronesiarenewableenergy.com</a>
Sent: Monday, October 11, 2021 9:10 AM
To: Frederick J. Horecky <a href="mailto:liveacologn:rederick">liveacologn:rederick J. Horecky <a href="mailto:liveacologn:rederick">liveacologn:rederick J. Horecky <a href="mailto:liveacologn:rederick">liveacologn:rederick J. Horecky <a href="mailto:liveacologn:rederick">liveacolo@micronesiarenewableenergy.com</a>
To: Frederick J. Horecky <a href="mailto:liveacologn:rederick">liveacologn:rederick</a>
To: Frederick J. Horecky <a href="mailto:liveacologn:rederick">liveacologn:rederick J. Horecky <a href="mailto:liveacologn:rederick">liveacologn:rederick</a>
To: Frederick J. Horecky

Fred,

I do not believe this agency has the approving authority to change the NEM law without the PUC authority or review, am I correct with this assumption or not. This indirectly has a cost associated with solar energy customers,

Jeff

----- Forwarded message -----

From: Ariel D. Mata <admata@goagwa.com>

Date: Mon, Oct 11, 2021 at 8:43 AM

Subject: RE: NEWLY APPROVED GPA NET POLICY PROGRAM

To: Jeff Voacolo < <a href="https://www.newableinc.com">https://www.newableinc.com</a>>, Dianne Mayo <a href="https://www.newableinc.com">dmayo@generationrenewableinc.com</a>>

Cc: Raul Encinas Braga < rebraga@generationrenewableinc.com >, Zeleior Sotelo

<zsotelo@generationrenewableinc.com>

To All,

Good morning. Please find attached newly approved GPA Net Metering Program Interconnection Policy for your reference.

Best Regards,

ARIEL MATA | Engineer III



**GUAM POWER AUTHORITY | POWER TO SERVE** 

P.O. Box 2977 Hagatna, GU 96932-2977

671 648.3158 | admets@spagwa.com

Jeffrey Voacolo

**Chief Operations Officer** 

Micronesia Renewable Energy, Inc.

Physical Address: 177 ILIPOG Drive, Tamuning, Guam 96913

Mailing Address: P.O. Box 7810, Tamuning GU 96931

Office: 671-632-2613 Mobile: 671-487-3763

Email: <u>ivoacolo@micronesiarenewableenergy.com</u> Website: <u>www.micronesiarenewableenergy.com</u>

# Micronesia Renewable Energy, Inc.

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Jeffrey Voacolo Chief Operations Officer Micronesia Renewable Energy, Inc

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October 15, 2021

Transmitted via Electronic mail jbenavente@gpagwa.com

Mr. John M. Benavente General Manager Guam Power Authority Gloria B. Nelson Public Service Building 688 Route 15, Suite 100 Mangilao, Guam 96913-6203

Håfa adai General Manager Benavente:

My office has received information provided by Assistant General Manager-Administration Beatrice P. Limtiaco regarding the Committee's inquiry into the recent revision of Guam Power Authority (GPA) AP-072, Net Metering Program Interconnection Program. Please extend the Committee's appreciation to her for providing the historical background behind the Rider's development to date.

The documents provided make clear the process to be followed when drafting, approving and transmitting this particular document for consideration by GPA senior management, the Consolidated Commission on Utilities (CCU), the general public, and the Guam Public Utilities Commission (GPUC). The process ultimately resulted in the GPUC issuing an order authorizing AP-072, effective June 04, 2020. However, the Committee finds this process was not followed when AP-072 was revised with an effective date of September 15, 2021. In particular, the GPUC was not asked to conduct its review and grant approval to the proposed revisions. Not seeking GPUC review and approval seemed unusual when CCU Resolution No. 2019-20 includes an excerpt from Docket No. 08-10 stating "The NM Rider may be amended or modified in the future by GPA, with the approval of the Guam Public Utilities Commission." Please provide the Committee with an explanation of why GPA did not seek GPUC approval prior to it being made effective by senior management.

The Committee notes the revisions to AP-072 include a new "#7.0 ENERGY STORAGE AND METERING" which, when coupled with the revision to the definition of "New System" under item 3.14, requires customers fitting the definition to have a GPA smart meter installed between the AC output of the inverter and the customer electric service panel, AND to require those same customers to install a battery system equal to or greater than the net metering system maximum output (kW). These revisions alone merit an opportunity for all affected parties and the GPUC to hear GPA's rationale for requiring such changes and to provide input on the changes. It was the Committee's understanding GPA Docket 20-09 was denied pending the completion of the studies ordered in Docket 19-04, and included in the GPUC order was a reference to GPA requiring the

238 Archbishop Flores St · Suite 906 - DNA Building · Hagatria GU 96910 Phone: (671) 475-4983 · Fax: (671) 475-4768 clyntrdigell@guamlegislature.org installation of a battery storage system. Including this requirement in AP-072 could be construed as GPA circumventing the GPUC order. The Committee would be interested in learning why GPA believes it can proceed with this requirement in the revised AP-072.

The Committee further notes section "6.0 <u>INTERCONNECTION REQUIREMENTS"</u> adds new items 6.2 through 6.6 to accommodate Customer Systems so GPA can install a second smart meter to monitor consumption, frequency and other related data. Again, all of these costs are to be borne by the customer without having an opportunity to review and comment on the proposed requirements.

The Committee requests GPA suspend the implementation of the revised AP-072 and continue with the version dated June 04, 2020 until such time as it has been agreed by the GPUC it does NOT need to entertain the proposed changes. Your cooperation in this regard would be appreciated.

Si Yu'os ma'ásc',

Clynton E. Ridgell

cc: Dr. Jeffrey Johnson, Chairman, GPUC Mr. Fred Horecky, Chief ALJ, GPUC

#### Fred Horecky

From: Simon Sanchez <gdcmgr@guamdrycleaners.com>

Sent: Saturday, October 23, 2021 12:55 AM
To: scott.hagen@pacificsolarguam.com
Cc: Vince I Sablan: John I Cruz Ir: Mata A

C: Vince J Sablan; John J Cruz, Jr.; Mata, Ariel D.; John M Benavente; Graham Botha; Francis

J Iriarte; Jorna Ballon; Jennifer G Sablan; John J.E., Kim; Lorraine Shinohar; Melinda

J Iriarte; Jorna Ballon; Jennifer G Sablan; John J.E., Kim; Lorraine Shinohar; Melinda Camacho; Tamra M Muna; rich bersamin; Jr, Simon R Camacho; Melissa C Uncangco; Pedro SN. Guerrero; Jeffrey Johnson; Joseph Duenas; William Hagen; James Paek; Pat Blas; jborja@gpagwa.com; t.hagen@guampestcontrol.com; horeckylaw@teleguam.net

Subject: Re: UL 1741 SB Requirement for Solar Inverters

GPA team: pls advise and respond. Were we still taking input while finalizing our policy? And since any policy can always be amended when good input is provided, can we respond specifically to Mr Hagen's concerns and input? I too was advised that GPA was working with Mr Hagen on his concerns and feedback. How were his issues and concerns reconciled with our policy? It's ok to disagree but at least we owe the parties who engage us a response to their concerns and input.

We are a publicly owned utility. Mr Hagen is also a shareholder. His company has always been collaborative with GPA even if we don't always agree. Utility scale and individual solar can and must co-exist to max our ability to reduce our dependency on fossil fuels and lower island energy costs. Stakeholders are owed a response to insure that we are not just talking to ourselves. No one has ALL the answers.

Hekna si Simon

On Oct 22, 2021, at 10:36 AM, scott.hagen <scott.hagen@pacificsolarguam.com> wrote:

This message goes out to John Cruz, Vince Sablan and all others involved in deceiving me and wasting my time. All other can bear witness.

On September 22 you emailed me and attached an unsigned copy of a "pre-final draft" of the NEM policy (attached) and I was told it would be signed soon and I was asked to make comments (attached). As per the email thread below, we were still in discussions as of October 19. Today! received a signed copy of the NEM policy with an effective date of September 15 (attached). You lied to me. You wasted my time. You disrespected me. You treated me like I was some kind of fool.

The comments and suggestions made are very sound, rational and logical and are meant to benefit all parties. This is the assistance I've been providing to you and anyone from GPA who sought my assistance as the solar industry grew. I showed you the 1st solar net metered house and 1st commercial system. I showed you the 1st 3 phase 208V & 480V PV systems. I showed you the first Grid Tied PV system with battery back up. I showed you PV system web based monitoring and all the data that can be gathered. I even showed you that when GPA's solar farm dips, it causes a "hick-up" in the grid which then effects the PV systems throughout the Island which then negatively effects the grid...and not the other way around. I pointed you to where you could seek further education and even brought solar educators to Guam to benefit all concerned. I help GPA answer questions from troubled customers who had PV systems installed by others. I've even briefed some

of you so you'd look educated prior to jumping into a meeting. I've always been available to you any day and any time. And I wont deny that several individuals within GPA have reciprocated with assistance to the best of their ability without jeopardizing their employment.

I don't think I will ever be able to believe that the information you give me or the words you say are the truth. I said it before and I'll say it again...GPA is gonna do whatever it wants to do...Regardless. You guys really know how to burn a bridge. From here on out it's strictly business. If it's not directly related to a NEM system we are processing or actively working on...I don't have time for you and neither does anyone working for my company. I'm not the type to go to the media or go against policy in protest and I'm a man of my word. Unless you raise the topic, this is the last you'll hear from me on the matter.

Some didn't need Covid to force us to wear a mask everyday....Some were already wearing a mask.

Take it easy.....

#### Scott Hagen

Pacific Solar & Photovoltaics, Inc. 389 Acho Latte Street, Dededo, GUAM 96929 Tel: 671-632-4002 Fax: 671-637-7996

#### <ATT00001.png>

From: Vince J Sablan <vsablan@gpagwa.com>

Sent: 10/19/21 9:40 AM

To: HAGEN TERESITA D <scott.hagen@pacificsolarguam.com> Subject: FW: RE: UL 1741 SB Requirement for Solar Inverters

Hi Scott,

I tried to fix your email to not link to Teresita. It seems to want to link every time I email you. Hopefully it works now. I can't make 10am today. How about later today at 130pm or tomorrow at after 1030 am?

Thanks,

Vincent J. Sablan, P.E. | Engineering Supervisor

**GUAM POWER AUTHORITY | POWER TO SERVE** 

<image001.jpg>

P.O. Box 2977 Hagatna, GU 96932-2977

671.648.3014 | <u>ysablan@gpagwa.com</u> www.guampowerauthority.com From: scott.hagen (mailto:scott.hagen@pacificsolarguam.com)

Sent: Monday, October 18, 2021 5:04 PM To: Vince J Sablan < vsablan@gpagwa.com>

Subject: RE: RE: UL 1741 SB Requirement for Solar Inverters

Can you please fix my name in your email contacts database? It says Teresita. That's my mom's name

Let's try for tomorrow, Tuesday, around 10ish.

#### Scott Hagen

Pacific Solar & Photovoltaics, Inc.

389 Acho Latte Street, Dededo, GUAM 96929

Tel. 671-632-4002 Fax: 671-637-7996

#### <ATT00001.png>

From: Vince J Sablan < vsablan@gpaqwa.com>

Sent: 10/18/21 8:25 AM

To: HAGEN TERESITA D <a href="mailto:sealing:s

#### Scott,

Are you free this afternoon to talk? I'm working on a response to your comments at this time.

Thanks,

	Vincent J. Sabian, P.E.   Engineering Supervisor
	GUAM POWER AUTHORITY   POWER TO SERVE
<image001.jpg></image001.jpg>	P.O. Box 2977 Hagatna, GU 96932-2977
	671.648.3014
	vsablan@gpagwa.com www.guamcowerauthority.com

From: scott.hagen [mailto:scott.hagen@pacificsolarguam.com] Sent: Saturday, October 16, 2021 8:07 AM To: John J Cruz, Jr. <icruz@goagwa.com> Cc: Vince J Sablan <ul> <li>ysablan@goagwa.com&gt;</li> <li>Subject: FW: RE: UL 1741 SB Requirement for Solar inverters</li> </ul></icruz@goagwa.com>
John,
See below. Hawaiian Electric also "jumped the gun" with the UL1741 SB requirement. Based on what I've been told and what Ive shared with you; December 31, 2021 might still be too soon.
I never got a response to my comments on the NEM policy changes. Truly none is needed. GPA will do whatever it wants, whenever it wants, regardless. At least I can say "I tried ".
Scott Hagen
<image005.jpg> Pacific Solar &amp; Photovoltaics, Inc.</image005.jpg>
389 Acho Latte Street
Dededo, Guam 96929
o) 671-632-4002 m) 671-688-3080
e) scott.hagen@pacificeoiarquam.com
www.pacificsolarguam.com
Original message
From: DER-QUALIFY <der-qualify@hawalianelectric.com></der-qualify@hawalianelectric.com>

Date: 10/16/21 7:42 AM (GMT+10:00)

To: scott.hagen@pacificsolarguam.com, DER-QUALIFY <der-qualify@hawalianelectric.com>

Cc: 'Brian Gold' < bqold@solarsupply.com>, 'Ryan Miller' < miller@solarsupply.com>, 'Bill Hagen' <bill hagen@hotmail.com>

Subject: RE: UL 1741 SB Requirement for Solar Inverters

Hi

We are still allowing srdv1.1 testing. We just sent an email out today. We still need to update our website.

Reminder: SRD 1.1 certification will NOT be accepted after December 31, 2021

# NOHEALANI HIRAHARA on behalf of der-qualify@hawaiianelectric.com

Senior Program Manager, Customer Energy Resources-Operations

#### lmage006.jpg>

PO Box 2750 / Honolulu, Ht 98840

O: 808 543,4749

M: 808.227.2329

E: Nohea. Hirahara @ hawaiisnelectric.com

W: www.hawalianelectric.com/DR



Be Green. Print only when necessary!

From: Scott Hagen < scott.hagen @pacificsolarguam.com>

Sent: Tuesday, September 28, 2021 8:04 PM

To: DER-QUALIFY < der-qualify @hawallanelectric.com>

Cc: 'Brian Gold' < bgold@solarsupply.com>; 'Ryan Miller' < miller@solarsupply.com>; 'Bill Hagen'

<br />
bill hagen@hotmail.com>

Subject: UL 1741 SB Requirement for Solar Inverters

[This email is coming from an EXTERNAL source. Please use caution when opening attachments or links in suspiciou email.]

Hafa Adai.

I am writing to ask if HECCO is currently enforcing UL 1741 SB for all new solar inverters. This is from the HECCO website: "Option 2 - SRD 2.0 - The latest certification requirement for IEEE 1547-2018, using the UL 1741 SB testing protocol with SRD V2.0, Nationally Recognized Testing Laboratory certificates for equipment must reference UL 1741 SB and the publication date."

My understanding is that the majority of top brand inverter manufacturers have not tested to this UL standard yet. I was also informed that UL 1741 SB was only very recently published. I ask because the Guam Power Authority started to require this certification as of yesterday and I'm wondering if it is a bit premature.

Any insight you can provide would be helpful. Thanks

Scott Hagen

General Manager

389 Acho Latte Street, Dededo, Guam 96929

Tel: 671-632-4002 Fax: 671-637-7996

www.pacificsolarguam.com

www.youtube.com/pacificsolarguam

www.facebook.com/pacificsolarguam

<image007.jpg>

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<Pacific Solar_Response to Proposed GPA NEM Amdmts_V2_10 01 21.pdf>
<GPA Revised AP-072 Net Metering Program Interconnection Policy dated 9.15.20._.pdf>
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#### PUBLIC UTILITIES COMMISSION OF GUAM

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> Lourdes R. Palomo Administrator

Frederick J. Horecky Chief Administrative Law Judge

Joephot R. Alcantara Administrative Law Judge

Anthony R. Camacho Legal Counsel

October 27, 2021

Graham Botha Legal Counsel Guam Power Authority

#### Dear Graham:

Recently GPA placed into effect its "NET METERING PROGRAM INTERCONNECTION POLICY, No. AP-072. This policy requires new metering customers to have battery storage systems. I have become aware of various complaints about the policy, from Scott Hagen, Jeff Voacolo, and Senator Clint Regel. Among other issues, they complain that the policy was placed into effect without any review or approval by the Guam Public Utilities Commission.

Public Law 27-132 requires that the PUC promulgate rules and regulations for the implementation of the net metering program. Public Law 29-62 states that the rate structure for the net metering program is subject to the approval of the PUC.

In its Order dated February 27, 2009, the PUC reviewed and approved the Standard Interconnection agreement for Net Metering Facilities and the Net Metering Program Interconnection Policy. See attachment hereto. The PUC also required certain changes in the Net Metering Interconnection Policy.

The original NET METERING PROGRAM INTERCONNECTION POLICY was reviewed and approved by the PUC before it became effective. The procedure previously followed regarding Net Metering Interconnection Policies suggests that the

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current policy, AP-072, should be reviewed and approved by the PUC before it becomes effective.

Furthermore, in GPA Docket 20-09, the PUC did not approve GPA's request to require that new NM customers either be required to install an Energy Storage System on new solar installations or to pay an energy storage rate. See PUC Order, GPA Docket 20-09, dated April 29, 2021.

What I propose is that GPA and the PUC agree that the effectiveness of the Net Metering Program Interconnection Policy, AP-072, be suspended pending review by the PUC in a docket to be established. The PUC would then have a full opportunity to consider and research all relevant aspects of this matter. The new policy does represent a significant departure from the prior policy. It could have an impact on the business of the solar industry, and the industry should also have an opportunity to voice its concerns.

I would appreciate it if you could let me know by Priday noon (October 29, 2021) if GPA will agree to a suspension of the effectiveness of the new policy pending a final determination by PUC in the docket. Thank you, and please let me know if you have any questions in this regard.

Sincerely,

Frederick J. Horecky
Chief Administrative Law Judge

	No.: AP-072   Issued: 08/04/2021		
GUAM POWER AUTHORITY Authority Policy	Prepared By: V.J. SABLAN, P.E. Engineering Supervisor		
	Reviewed By:  J. G. ACOSTA, P.E. Confidencing Manager		
Title: NET METERING PROGRAM	Concurred By: JOHN J. CRUZ, P.E. AGMETS		
INTERCONNECTION POLICY	Approved By:  J.M. BENAVENTE, P.E. General Manager		
Effective Date: 9/15/202/ Supersedes No. AP-072			

#### 1.0 PURPOSE

The purpose of this document is to establish criteria and requirements for the safe and reliable operation of qualifying interconnected customer-owned generating facilities, as part of the Guam Power Authority's Net Metering Program in accordance with Article 5, Chapter 8, Title 12 of the Guam Code Annotated. GPA reserves the right to modify the net metering program requirements based on additional analysis and studies.

#### 2.0 SCOPE

- 2.1 Customers are allowed to interconnect customer-owned generating facilities provided such customer-owned facilities are in compliance with this policy and do not exceed twenty-five (25) kW for GPA residential class customers and one-hundred (100) kW for GPA non-residential class customers.
- 2.2 The interconnected generating facility's primary purpose shall be to generate energy to serve all or a part of an individual customer's load. The generating facility shall be located on the customer's single contiguous property and shall not serve loads outside of the customer's single contiguous property.
- 2.3 A Net Metering Customer must comply with this policy, execute a "Standard Interconnection Agreement for Net Metering Facilities" with GPA, obtain all required Department of Public Works Permits, obtain GPA Engineering approval, and submit a GPA Inspection Report signed by an authorized Department of Public Works (DPW) Inspector before Parallel Operation of a Generating Facility with GPA's Distribution System.
- 2.4 The specifications and sequirements listed kerein are intended to mitigate possible adverse impacts caused by the Customer Facility on GPA equipment and personnel and on other GPA customers. This policy is not intended to address protection of the Customer Facility itself or its internal load. The Net Metering Customer is responsible for complying with the requirements of all applicable standards, codes, statutes and authorities to protect itself and its loads.

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#### 3.0 DEFINITIONS

- 3.1 Net Metering: Measuring the difference between the electricity supplied by a utility and the electricity generated by a qualifying customer-generator, which is fed back to the utility over the applicable billing period.
- 3.2 Qualifying Capacity: A qualifying customer generator is limited to the following, provided the rated capacity of the renewable generator does not exceed the customer-generator service entrance capacity, and
  - A. does not exceed twenty-five (25) kW for GPA customers under Rate Schedule "R": and
  - does not exceed one-hundred (100) kW for non-residential class GPA customers.
- 3.3 Application: The notice provided by the Customer to GPA, which initiates the interconnection process.
- 3.4 GPA Inspection Report: Form provided by GPA and completed by the authorized Department of Public Works (DPW) Electrical Inspector having jurisdiction over the installation, indicating acceptance of construction.
- 3.5 Net Metering Customer (Customer): The person who owns and/or operates the customer generating facility interconnected to the GPA distribution system via a GPA meter.
- 3.6 Qualifying Customer Generator: A non-GPA owned equipment for producing electricity that uses fuel cells, microturbines, wind, biomass, hydroelectric, solar energy or a hybrid system consisting of these facilities, as its primary source of fuel.
- 3.7 GPA Distribution System: All GPA power facilities rated 15 kV and below by which GPA provides power service to customers.
- 3.8 Net Metering/Customer Facility: A qualifying customer generator located on the Customer's premises along with all facilities ancillary and appurtenant thereto, including interconnection equipment, which the Customer requests to interconnect to the GPA Distribution System.
- 3.9 Island; Islanding: A condition on GPA's Distribution System in which one or more Customer Generating Facilities deliver power to customers using a portion of GPA's Distribution System that is electrically isolated from the remainder of GPA's Distribution System.
- 3.10 In-Service Date: The date on which the Customer Facility is complete, inspection approval is received from DPW and the facility is ready for service, even if the facility is not placed in service on or by that date.

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- 3.11 Standard Interconnection Agreement for Net Metering Facilities: An agreement for interconnection service, between the Net Metering Customer and GPA. The agreement also includes any amendments or supplements thereto entered into by the Net Metering Customer and GPA.
- 3.12 Point of Common Coupling (PCC): The point where the Net Metering Customer's local electric power system connects to the GPA distribution system. For overhead systems, the PCC is the weather head. For underground or hybrid installations, the PCC is the nearest GPA handhole or pad mounted transformer.
- 3.13 Utility: Guam Power Authority (GPA).
- #3.14 New System: A New System includes any system that is: 1) a first-time installation; or 2) a legacy system that has been modified including but not limited to a) additional solar PV capacity, b) addition of batteries, and/or c) change of inverters.
- #3.15 Multi-Mode Inverter: A multi-mode inverter is an inverter which operates in more than one mode; that is, it operates from the grid when available and off-grid mode when the grid is disconnected.

# 4.0 APPLICABLE CODES AND STANDARDS

The following codes and standards shall form a part of this policy, including the latest revisions with respect to material, design and tests.

- 4.1 IEEE 1547-2018 Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces
- #4.2 IEEE Standard 1547.1- 2020 Conformance Test Procedures for Equipment Interconnecting Distributed Energy Resources with Electric Power Systems and Associated Interfaces
- 4.3 UL Standard 1741, Inverters, Converters, and Controllers for Use in Independent Power Systems Equipment shall be UL listed.
- #4.4 UL Standard 1741 Supplement A (SA)
- 4.5 IEEE Standard 929-2000, IEEE Recommended Practice for Interface of Photovoltaic (PV) Systems.
- 4.6 ANSI Standard C37.90, IEEE Standard for Relays and Relay Systems Associated with Electric Power Apparatus.

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- 4.7 ANSI C84.1-2016 American National Standard for Electric Power Systems and Equipment Voltage Ratings (60 Hz)
- 4.8 Equipment covered by this specification shall conform to all applicable industry standards including the 2020 National Electric Code (NEC), National Electric Safety Code (NESC), the Institute of Electrical and Electronics Engineers (IEEE), American National Standards Institute (ANSI), Underwriters Laboratories (UL) standards, ASTM, and ICEA.
- 4.9 All safety and operating procedures for joint use equipment shall be in compliance with the Occupational Safety and Health Administration (OSHA) Standard 29, CFR 1910.269 and equipment manufacturer's safety and operating manuals.
- 4.10 IEEE Standard 519-2014 IEEE Recommended Practice and Requirements for Harmonic Control in Electric Power Systems
- \*4.11 Guam Power Authority System Improvement Plan for Renewables Final Report June 6, 2018 Prepared by Electric Power Systems Consulting Engineers - Redacted Version.
- 4.12 Renewable Energy Interconnection Strategy Final Report September 29, 2015 Prepared by TG Engineers, PC.
- 4.13 All local and federal building codes.
- #4.14 California Rule 21
- #4.15 Hawaiian Electric Rule 14H
- #4.16 IEEE Standard 2030.5-2018 for Smart Energy Profile Application Protocol
- #4.17 IEEE Standard 1815-2012 for Electric Power Systems Communications-Distributed Network Protocol (DNP3)
- #4.18 NFPA 70: National Electrical Code 2020

#### 5.0 GENERAL REQUIREMENTS

- 5.1 Any GPA Customer wishing to install a qualifying customer facility under this net metering program must first make application at any GPA Customer Services Office during normal business hours.
- \*5.2 Any Net Metering Facility desiring to interconnect with the GPA Distribution System or any modifications to an existing interconnection must meet all requirements of this interconnection policy in its most current approved version at

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the time of interconnection or modification. GPA reserves the right to require the customer, at the customer's expense, to provide corrective action or additions to existing electrical facilities in the event that GPA or other Government Regulations are modified.

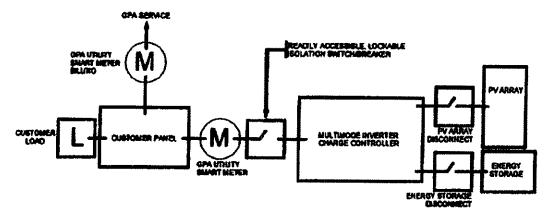
- 5.3 Opt-out customers are ineligible to participate in the net-metering program in accordance with the GPA Smart Meter opt Out Program Application Agreement.
- 5.4 The specifications and requirements listed herein shall apply generally to the Qualifying Customer Generator throughout the period encompassing the Net Metering Customer's installation, testing, commissioning, operation, maintenance, decommissioning and removal of said equipment. GPA may verify compliance at any time.
- The Customer shall submit the site and electrical plans (minimum size 11" x 17") to 5.5 GPA Engineering for review and approval.
- 5.6 All interconnection equipment must be approved by GPA prior to being connected to the GPA Distribution System and before parallel operation is allowed. Accordingly, the Customer shall submit equipment data sheets, electrical plans, a site plan, a completed Generator Qualifications sheet, and other technical information as may be requested by GPA Engineering for review and approval.
- 5.7 The Customer shall be responsible to obtain all required construction and operating permits for the installation of equipment on his property. The net-metering facility shall be approved and placed in-service only after all required documentation, permits, and Inspection Report have been received.
- GPA shall install, own, and maintain kilowatt-hour smart meters. The method of **\*5.8** accounting for the electricity under net metering is with a single, bi-directional smart meter capable of measuring current and energy flow in two directions. A separate metering provision shall be provided by the customer to directly monitor the output of the grid tie DC/AC inverter. GPA will provide this meter also. The customer shall be responsible for providing the meter socket, conductors, and appurtenances in accordance with GPA Service Rules and Regulations.
- 5.9 Common labeling approved by GPA and in accordance with NEC requirements must be posted on the meter base, disconnects, and other pertinent equipment stating that generation is operating at or is located on the premises. Labeling shall include a sign, 4" wide by 2" tall, and black letters on a red background adjacent to or on the meter enclosure as directed by GPA Engineering stating that the facility is a "NET METERING CUSTOMER."
- \*5.10 At its discretion, GPA will reprogram or replace the smart meter(s), and provide inspections and approvals of the net metering facility.

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- \*5.11 GPA will interconnect the facility at the Point of Common Coupling (PCC) after an authorized DPW Electrical Inspector signs the GPA Inspection Report indicating acceptance of construction on the customer premises. GPA final acceptance into the Net Metering Program is dependent on receiving the approved Inspection Report.
- 5.12 GPA's representative(s) shall have full and free access to the customer's premises at all reasonable times for the purposes of reading meters, inspections and repairs, installations or removal of the Authority's property, or for any other purpose incident to providing service.
- 5.13 All GPA costs including labor, equipment, and materials associated with interconnecting a net metering customer to the GPA Distribution system shall be borne by the customer. This includes costs for construction or upgrades of GPA's system as required to accommodate the Customer Facility. Additional charges incurred by GPA shall be determined by GPA and paid by the customer.

#### 6.0 INTERCONNECTION REQUIREMENTS



# TYPICAL ONE-LINE DIAGRAM

#### \*6.1 Inverter

The Customer shall connect the load and generating equipment to the GPA source via a grid tie DC/AC or multi-mode inverter in accordance with applicable codes as illustrated in the Typical One-Line Diagram.

#### #6.2 Inverter Certification Requirements

The Customer Inverter must comply with IEEE 1547-2018, IEEE Standard 1547.1-2020, UL Standard 1741, and UL Standard 1741 Supplement A (SA). The Customer Inverter must have been tested and certified under the new UL testing protocol

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known as UL 1741 Supplement A (SA).

#### #6.3 Inverter Application-Level Protocol Requirements

The Customer Inverter must support the application-level protocol IEEE 2030.5 (ZigBee SEP 2.0 Smart Energy Profile), but other application-level protocols may be used by mutual agreement of the parties including IEEE 1815/DNP3 for SCADA real-time monitoring and control. The Customer Inverter must have IEEE 2030.5 Communication Certification.

#### #6.4 Inverter Information Requirements

There are three types of information Customer Systems are required to send GPA:

- 1) Administrative Data Customer system ID, system ratings, available functions
- 2) Monitored Data Real-time measurements, state of readiness
- Error conditions Indication of any failure to comply with requirements within the agreed timeframe, alarms noting shutdown or failure to restart with the associated reason.

#### #6.5 Inverter Function Requirements

The Customer inverter must be certified to provide the inverter function listed in the Table below as a prior condition to interconnection to GPA's grid at no cost to GPA. GPA can require the Customer to configure these functions at anytime during the Customer's System is interconnected to GPA's Grid.

Inverter Function	Compliance Date
Monitor Key DER Data	Effective Date of this Authority Policy
Low and High Voltage Ride Through	Effective Date of this Authority Policy
Low and High Frequency Ride Through	Effective Date of this Authority Policy
DER Disconnect/Reconnect	Effective Date of this Authority Policy
Limit Maximum Active Power	Effective Date of this Authority Policy
Soft Start Ramp Rate /	and the control of th
Normal Ramp Rate	Effective Date of this Authority Policy
Presency Watt	Effective Date of this Authority Policy
Volt Watt	Effective Date of this Authority Policy
Dynamic Volt/VAR	Effective Date of this Authority Policy
Anti-Islanding Protection	Effective Date of this Authority Policy
Scheduling Power Values and Modes	Effective Date of this Authority Policy
Non-Export	Effective Date of this Authority Policy
Set Active Power	TBD **
Dynamic Reactive Support	TBD **

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\*\*12 months after approval of a nationally recognized standard

#### 6.6 Non-Inverter Based Interconnection Requirements

The Application for such Interconnection requires more detailed GPA analysis, review, testing, and approval of the equipment proposed to be installed to ensure compliance with applicable standards. Customers proposing such interconnection may also be required to submit a power factor mitigation plan for GPA review and approval.

#### 6.7 Isolation Switch

The Customer shall furnish and install on the Customer's side of the meter a UL approved safety disconnect switch/breaker which shall be capable of fully isolating the Customer's generator from the GPA electric system. The disconnect switch shall be located adjacent to GPA's meter or at a location approved by the GPA inspector and shall be provided with sealing provisions. The disconnect switch shall be accessible to GPA personnel at all times.

- 6.8 GPA shall have the right without compensation to disconnect the Customer Facility from GPA's system:
  - 6.8.1 To maintain safe electrical operating conditions; or
  - 6.8.2 In the event the Customer Facility does not meet required standards; or
  - \*6.8.3 If at any time the Facility or aggregate of customer distributed generation systems facilities adversely affects GPA's operation of its electrical system or the quality of GPA's service to GPA customers; or
  - #6.8.4 In the event of excess renewable energy generation and light load conditions.

#### 6.9 Voltage and Phasing

The nominal voltage and phase configuration of the Customer's generation must be compatible with GPA's system at the Point of Common Coupling (PCC).

In the event of a utility power outage, the net metering facility must be able to automatically disconnect from utility power to ensure power is not fed back into the GPA power grid. This is extremely important during restoration/ repair situations where power fed into the GPA grid poses a safety hazard to distribution crews working on the system and the community who may come in contact with downed

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lines and equipment.

#### 6.11 Protection Requirements

- 6.11.1 The protective functions and requirements of this policy are specifically designed to protect GPA's Distribution System and not necessarily the customer facility or loads connected to the customer facility. The customer shall be solely responsible for providing adequate protection for its facility.
- 6.11.2 The customer's protective devices shall not adversely impact the operation of other protective devices utilized on GPA's Distribution System.
- 6.11.3 A customer facility operating in parallel with GPA's Distribution System shall be equipped with the following protective features:
  - a. Over and under voltage and frequency trip functions with the following ride-through settings; and

Description	Setpoints							
	Voltage (PU)	Frequency (HZ)	Trip Time (Seconds)					
Voltage			1					
Under	V < 0.88		2					
Over	> 1.20		0.16					
	1.10 < V < 1.20		2					
Frequency								
Under		F < 57.0	0.16					
Over		F > 63.0	0.16					

#### Ride Through Settings

- b. Voltage and frequency sensing and time-delay functions Preventing the customer generator from energizing a de-energized GPA Distribution System and preventing the generator from reconnecting unless GPA's service voltage and frequency is within the range specified by ANSI C84.1-1995 Table 1 Range B (Voltage Range of 106 V to 127 V on a 120 V basis, inclusive, and a frequency range of 59.3 Hz to 60.5 Hz, inclusive, and is stable for at least 60 seconds); and
- c. A function to prevent the customer facility from contributing to the formation of an unintended Island, and ceasing to energize the GPA Distribution System within two (2) seconds of the formation of an unintended Island; and
- d. A function to automatically disconnect the customer facility from the

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GPA Distribution System for sustained faults on GPA's Distribution System.

#### 6.12 Interference

- 6.12.1 The Customer shall not operate a generating facility in parallel with GPA that superimposes a voltage or current upon GPA's Distribution System interfering with GPA operations, with service to GPA customers, or with communication facilities.
- 6.12.2 To eliminate undesirable interference, each Generating Facility shall meet the following criteria:
  - a. Voltage Regulation. The Generating Pacifity shall not actively regulate the voltage at the PCC while in parallel with GPA's Distribution System.
  - b. The Generating Facility shall not cause the service voltage at other customers to deviate outside the requirements of ANSI C84.1-1995, Range A (IEEE 1547-4.1.1).
- 6.12.3 If such interference occurs, the Customer must take convective action at its own expense after being given notice and reasonable time to do so by GPA. If the Customer does not take corrective action in the time provided by GPA, or continues to operate the facility causing interference without restriction or limit, GPA may, without liability, disconnect the Customer Facility from GPA's Distribution System.

#### #7.0 ENERGY STORAGE AND METERING

- 7.1 GPA requires new not metering systems as defined in 3.14 for GPA to install a GPA smart meter between the AC output of the inverter and the customer electric service panel. The placement of this meter will depend on the specifics of the NEM system configuration and interconnection. The Customer shall be responsible for providing and installing all required equipment necessary to allow installation of a GPA smart meter between the renewable generator and the customer electric service panel.
- 7.2 The not motoring system inverter must be able to determine any significant drops in production at a rate of greater than ten percent within one minute of PV output and immediately command the energy storage system to output power to sustain the original PV power output for at least 15 minutes or until the solar output recovers whichever occurs first.
- 7.3 The battery system capacity (kW) should be equal to or greater than the net metering system maximum output (kW) at the AC output of the inverter.

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- 7.4 The minimum energy capacity (kWh) should be equal to the battery system output capacity (kW) multiplied by 0.5 hours. For a 5-kW AC net metering system, the battery capacity should be capable of supplying 5 kW and 2.5 kWh.
- 7.5 Minimum battery system capacity and minimum battery energy capacity shall be computed using the methodology proposed by:
  - J. Marcos, O. Storkëi, L. Marroyo, M. Garcia, E. Lorenzo. 2014. "Storage requirements for PV power ramp-rate control", Solar Energy, Volume 99, Pages 28-35, ISSN 0038-092X, https://doi.org/10.1016/j.solener.2013.10.037.

#### \*8.0 INTERCONNECTION STUDY

Upon receipt of an application for a Net Metering facility, GPA shall inform the customer if an interconnection study is required to determine whether or not the installation of the Customer Pacility will have a significant impact on GPA's Distribution System, which may require additional equipment for the appropriate sizing of an Energy Storage System (ESS) or Battery Bank system for compensating the variability of PV power. Interconnection studies may include, but are not limited to, service studies, coordination studies and utility system impact studies.

- 8.1 GPA will advise the customer of the estimated additional cost of performing such study.
- 8.2 Upon payment by the customer of the estimated study costs, GPA will proceed with the interconnection study.
- 8.3 The Customer will not be allowed to interconnect to the GPA Distribution System until the findings of the study indicate interconnection will not be detrimental to the GPA system or mitigation measures are undertaken.

#### 9.0 BILLING

- 9.1 In accordance with the Interim Net Metering Rider as adopted by the PUC under Docket 08-10, net metering customers shall be billed on a monthly basis energy charges applicable under the currently effective standard rate schedule and any appropriate rider schedules including the Levelized Energy Adjustment Clause and other clauses as well as surcharges. No excess energy credits shall reduce any fixed monthly customer charges, if any.
- 9.2 Monthly charges for energy to serve the customer's net or total load shall be determined according to GPA's standard service tariff under which the customer would otherwise be served, absent the customer electric generating facility. Energy charges under the customer's standard tariff shall be applied to the customer's net energy for the billing period to the extent that the net energy exceeds zero.

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- 9.3 If the customer's net energy is zero or negative during the billing period, the customer shall pay only the non-energy charge portions of the standard tariff bill. If the customer's net energy is negative during a billing period, the customer shall be credited in the next billing period for the kWh difference. When the customer elects no longer to take service under this Net Metering Program, any unused credit shall revert to GPA. Excess electricity credits are not transferable between customers or locations.
- 9.4 In no event shall the excess credit from a single month be carried forward beyond 12 months as a credit against the current monthly bill. At the end of each calendar year, or in the event of termination of service, any excess kWh credits, if any, will be granted by the customer to GPA without compensation to the customer, effective January 1, 2021 per GPA Docket 20-06 to the PUC.
- 9.5 These methods are subject to modifications in order to comply with the latest rates established by the PUC, future GPA technical analysis, and new policies by the Consolidated Commission on Utilities (CCU).

# #10.0 FORBIDDEN PRACTICES USED TO INCREASE THE SIZE OF NET METERING SYSTEMS

- 10.1 GPA has noted that several customers have split their customer accounts at one premise into several new GPA accounts for the purpose of increasing the effective size of their net metering systems beyond the qualifying capacity. This practice is now forbidden.
- 10.2 If after initial installation, net metering customers are found to have increased their net metering systems beyond the qualifying capacity, GPA has the right to disconnect that customer from the system until the net metering system is brought back into conformance or the entire net metering system is isolated from the grid.
- 10.3 Any customer renewable energy generation systems above the qualifying capacity are to be completely isolated from the grid. Customers meeting the conditions listed under GPA Rate Schedule M will be placed on GPA Rate Schedule M.

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#### BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN THE MATTER OF:	)	GPA DOCKET 20-09
GUAM POWER AUTHORITY	) }	
PETITION FOR THE CREATION OF AN	)	ORDER
ENERGY STORAGE RATE SCHEDULE	)	

#### INTRODUCTION

This matter comes before the Guam Public Utilities Commission ("PUC") upon the Guam Power Authority ("GPA") Petition for the Creation of a new Energy Storage Rate Schedule.

GPA seeks approval to create a new Energy Storage Rate schedule for Net Metering (NM) customers. Under GPA's petition, new NM customers would have the option to either install frequency control capability or an Energy Storage System (ESS) on any new solar photovoltaic ("PV") or wind turbine installation or opt to pay the Energy Storage Rate. GPA proposes the initial Energy Storage Rate to be set at \$2.43 per kW per month. <sup>2</sup>

#### BACKGROUND

On December 29, 2008, the PUC approved and adopted the current Interim Rider for Customer-Generator Energy Facilities, developed by both GPA and the Georgetown Consulting Group, Inc.<sup>3</sup> On February 27, 2009, the PUC approved and adopted GPA's Standard Interconnection Agreement for Net Metering Facilities, as well as GPA's Net Metering Program Interconnection Policy.<sup>4</sup> On December 10, 2015, the PUC approved and adopted a language change to the Net Metering Rider ("NM Rider") under "MONTHLY BILLING" to allow unused kWh credits to be carried forward each month until the end of a twelve (12) month period where the account would be "trued-up" and the customer could elect to have the credits carry forward or have GPA purchase the remaining credits at a one-to-one retail rate; if no election was made, GPA must credit the customer's account with any and all unused kWh credits.<sup>5</sup>

<sup>&</sup>lt;sup>3</sup> GPA Petition for the Creation of a new Energy Storage Rate Schedule, GPA Docket 20-09, filed March 10, 2020.

<sup>&</sup>lt;sup>2</sup> ld. at p. 5.

<sup>&</sup>lt;sup>3</sup> PUC Decision and Order, GPA Docket 08-10, p. 2 (Dec. 29, 2008).

<sup>&</sup>lt;sup>4</sup> PUC Decision and Order, GPA Docket 08-10, p. 1 (Feb. 27, 2009).

<sup>&</sup>lt;sup>5</sup> PUC Decision and Order, GPA Docket 08 10, p. 7 (Dec. 10, 2015).

In the December 29, 2008 Order, the PUC stated that "The NM Rider may be amended or modified in the future by GPA, with the approval of the Guam Public Utilities Commission (PUC)." The Order also stated that "The NM Rider is available to all customers without limitation as to the aggregate capacity of Customer-Generator installations on the GPA System. However, at the time the number of Customer-Generators exceeds one-thousand (1000) customers this issue will be reviewed by the PUC and a determination made as to the continued offering of the NM Rider for new 'net metering' customers."

GPA reached 1,000 NM customers in June 2016.8 As of August 2018, GPA's NM customer total reached 1,764, which GPA calculated would result in an approximate annual subsidy of \$3,456,653.00.9

On October 4, 2018, GPA filed a petition for Modification of Current NM Rider. GPA recommended a Value of Solar ("VOS") rate replace the current NM Rider. GPA proposed there be a five-year phase in period, where the NM subsidy would be decreased until the new VOS rates would be in place. Per GPA, VOS rates would be established through the following process: "1) Reassess VOS rates each LEAC for Avoided Energy Value; 2) Reassess VOS rates for other VOS components as applies on a) an annual basis; b) periodic basis over a set number of years; and 3) whenever there are material changes to GPA's generation mix."

After receiving GPA's petition on October 4, 2018, on behalf of the PUC, the Administrative Law Judge ("ALJ") of the PUC retained Daymark Energy Advisors ("Daymark") to conduct an independent review of GPA's application, review NM tariffs across the United States, and provide a report of findings and recommendations regarding whether GPA's proposed NM credit change should be approved. On May 30, 2019, the PUC issued the following ordering provisions<sup>12</sup>:

- GPA's request to modify the current Net Metering Rider from providing retail rate for net metering credits to avoided cost for net metering credits, with a five-year phase-in approach, as set forth in its Petition, is denied.
- 2. The NM Rider cap is hereby amended to be changed from a customer cap of 1000

<sup>&</sup>lt;sup>6</sup> PUC Order, GPA Docket 08-10, dated December 29, 2008, at Exhibit A, Paragraph 1.

<sup>&</sup>lt;sup>7</sup> PUC Order, GPA Docket 08-10, dated December 29, 2008, at Exhibit A, Paragraph 3.

<sup>&</sup>lt;sup>6</sup> Guam Consolidated Commission on Utilities Resolution No. 2018-17, Authorizing Management of the Guam Power Authority to File Net Metering Program Recommendations Addressing the Guam Public Utilities Commission Order Docket No. 08-10 (December 29, 2008), Exhibit A, Paragraph 3, adopted August 28, 2018, at p.

<sup>&</sup>lt;sup>5</sup> GPA Petition for Modification of Current Net Metering Rider, GPA Docket 19-04, filed October 4, 2018, at p. 1.

<sup>11 14</sup> 

<sup>12</sup> PUC Order, GPA Docket 19-04, dated May 30, 2019.

net metering customers to an aggregate kW cap set at 10% of GPA's August 1, 2017 system peak demand of 261 MW.

- GPA is ordered to complete the planned distribution system impact study and include in that study a balanced locational and full benefit-cost analysis of how distributed generation impacts the distribution system.
- 4. GPA is ordered to include a rebate program for battery storage in the DSM program and encourage solar providers to include storage with the solar systems and explain the benefits to customers.
- Once the aggregate kW cap reaches 10% of GPA's August 1, 2017 system peak demand and GPA has conducted the distribution system impact study ordered above, the PUC will consider changes to the Interim NM Rider.
- 6. If GPA is concerned about lost revenue, it should provide evidence during its next filed base rate case.

On March 10, 2020, GPA filed a new petition with the PUC for the creation of a new energy storage rate schedule<sup>13</sup>. On behalf of the PUC, the ALJ of the PUC retained Daymark to conduct an independent review of GPA's application.

#### **DETERMINATIONS**

The PUC Order in GPA Docket No. 19-04 required GPA to do the following:

- conduct a distribution system impact study, including a full benefit-cost analysis that analyzes the impact of distributed generation
- conduct an independent study determining the cost of grid services used by NM customers
- implement a battery storage rebate program<sup>14</sup>

As identified in Daymark's Review of Guam Power Authority Request for Approval of an Energy Storage Rate (the "Daymark Report"), GPA has hired Landis and Gyr to undertake a distribution system impact study and hired Utility Financial Service LLC to investigate rates associated with NM, including addressing rates that consider the locational value of solar and technically and economically feasible non-wires alternatives to solve distribution problems identified in the distribution study. However, neither study has been completed to-date nor has GPA performed a full benefit-cost analysis. Finally, GPA did not implement a battery storage rebate

GPA Petition for the Creation of a new Energy Storage Rate Schedule, GPA Docket 20-09, filed March 10, 2020
 PUC Order, GPA Docket 19-04, dated May 30, 2019

<sup>&</sup>lt;sup>15</sup> Daymark Energy Advisors, Review of Guam Power Authority Request for Approval of an Energy Storage Rate, April 21, 2021, at p. 5.

program. The Daymark Report noted that GPA is not out of compliance in regard to the battery storage rebate program since the PUC Order in Docket No. 20-05 directed GPA to focus on other programs.<sup>16</sup>

In addition, the Daymark Report concluded that GPA did not properly determine the extent to which NM is causing grid issues and with this lack of support, it is difficult to accurately develop a charge designed to recover costs related to system issues caused by NM. Daymark noted: "Even if causation were established, the lack of a full benefit-cost analysis of NM does not allow NM benefits to offset such costs in a rate calculation" <sup>17</sup>. The Daymark Report also argues that system upgrade needs should be funded by all customers unless costs can clearly be assigned to the specific cost causers. <sup>18</sup>

GPA's Petition proposes that new NM customers either install frequency control capability, an ESS, or pay the Energy Storage Rate. However, as described in the Daymark Report, GPA remains vague and unclear about the specific requirements of installing frequency control capability or an ESS. In RFI 1-B, GPA states: "GPA will add or modify its requirements when it completes these studies", displaying a level of uncertainty that we find creates too much uncertainty for new NM customers. This uncertainty leaves new NM customers with only the choice to pay the Energy Storage Rate.<sup>19</sup>

The Daymark Report describes how in calculating the initial proposed Energy Storage Rate, GPA makes several unsupported assumptions. First, GPA arbitrarily assigns half of the revenue requirement for installing a battery system to NM customers without proving to what degree NM customers are causing grid issues. Then, GPA bases the billing determinant on current NM customers, not future NM customers. The Daymark Report suggest that if the PUC determines that an Energy Storage Rate for new NM customers is justified, GPA should be required to calculate a rate designed to recover costs directly related to those new NM customers. In addition, GPA should be required to specifically identify to what extent NM has caused system issues as compared to other causes.<sup>20</sup>

The ALJ conducted his own independent review of GPA's Petition, responses to requests for information, the Daymark Report, and public testimony. The ALJ filed his ALJ Report in this Docket on April 19, 2021. The ALJ concurs with the findings and recommendations of the Daymark Report. The ALJ report also notes that seven

<sup>16 34</sup> 

<sup>&</sup>lt;sup>17</sup> Daymark Energy Advisors, Review of Guam Power Authority Request for Approval of an Energy Storage Rate, April 21, 2021, at p. 6

la Id.

<sup>19</sup> ld. at p. 7.

<sup>20</sup> ld. at p. 8.

witnesses, including members of the public, NEM customers, and solar industry representatives, testified against the proposal. The PUC also adopts the findings and conclusions of the ALJ Report.

#### ORDERING PROVISIONS

After review of the record herein, GPA's Petition for creation of a new Energy Storage Rate Schedule, the ALJ Report, and the Daymark Report, for good cause shown, on motion duly made, seconded, and carried by the undersigned Commissioners, the Guam Public Utilities Commission HEREBY ORDERS that:

- 1. GPA's petition for the Creation of a new Energy Storage Rate Schedule is denied
- 2. Before petitioning for an alteration to the current NM compensation methodology, GPA must complete the studies as ordered in Docket 19-04:
  - a. A planned distribution system impact study and include in that study a balanced locational and full benefit-cost analysis of how distributed generation impacts the distribution system.
  - b. An independent study determining the cost of grid and other services used by NM customers, which identifies in detail the value of those services to the NM customers.
- If in the future, GPA proposes a charge to NM customers related to NM customers' impact on the GPA electric system's reliability, GPA must establish clear cost causation of NM customers impacting grid reliability.

**[SIGNATURES TO FOLLOW ON NEXT PAGE]** 

Dated this 29th day of April 2021.

Jeffrey C. Johnson

Chairman

Rowena F. Perez-Camacho

Commissioner

Joseph M. McDonald Commissioner

Michael A. Pangelinan Commissioner

Peter Montinola Commissioner Doris Flores Brooks Commissioner

Pedro S.N. Guerrero Commissioner

#### BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN THE MATTER OF: NET METERING (pursuant to P.L. 27-132 and 29-62)

Docket No. 08-10



#### ORDER

This matter previously came before the Commission on December 29, 2008. The Commission Decision and Order on that date approved the Interim Net Metering Rider for Customer-Generator Energy Facilities. In paragraph 8 of its Decision and Order, the Commission requested that GPA prepare a draft Interconnection Agreement for Net Metering Facilities and submit such agreement to the PUC for review and approval. Appended hereto as Attachments A and B are the Standard Interconnection Agreement for Net Metering Facilities and Net Metering Program Interconnection Policy submitted by GPA. On February 17, 2009, the PUC's regulatory consultant, Georgetown Consulting Group, Inc. [GCG] submitted its Report on the GPA Net Metering Interconnection Agreement. <sup>1</sup> Therein GCG recommended approval, with the exception of the requirement that all design and construction drawings must be signed and stamped by a licensed Professional Engineer.

After consideration and review of the Standard Interconnection Agreement for Net Metering Facilities, and the Net Metering Program Interconnection Policy, made attachments A and B hereto, the Report of GCG, and for good cause shown and on motion duly made, seconded and carried by the affirmative vote of the undersigned Commissioners, the Commission hereby ORDERS that:

- The Standard Interconnection Agreement for Net Metering Facilities and Net Metering Program Interconnection Policy are hereby adopted and approved by the Commission, subject to the exception indicated in paragraph 2 below.
- 2. In accordance with the recommendation of GCG, the requirement in paragraph 2 of the Standard Interconnection Agreement for Net Metering Facilities that "all design and construction drawings must be signed and stamped by a licensed Professional Engineer" shall be deleted. In addition, the requirement in paragraph 5.5 of the Net Metering Program Interconnection Policy, that the required construction drawings must be "signed and stamped by a licensed Professional Engineer having jurisdiction", shall also be deleted.
- 3. GPA shall include an indemnification clause in both the Interconnection Agreement and the Policy which requires that Net Metering Customers indemnify and hold GPA harmless from any claims, causes of action, damages, or any matter concerning or relating to the Customer's Net Metering Facility, operation of such facility, the interconnection agreement, or the interconnection to GPA's system.

See GPA Net Metering Interconnection Agreement - Docket 08-10, submitted by Larry Gawlick to PUC Chairman Johnson on Pebruary 17, 2009.

Docket No. 08-10 ORDER, February 27, 2009	
Dated this 27th day of February, 2009.	
1. Johnson	Jøseph M. McDordald
Jeffrey Cijohnson Chairman	A Canto
Rowena E Perez	Filomena M. Cantoria

Michael A. Pangelinan



#### **GUAM POWER AUTHORITY**

ATURIDĀT ILEKTRESEDĀT GUAHAN P.O.BOX 2977 • AGANA, GUAM U.S.A. 98932-2977

# STANDARD INTERCONNECTION AGREEMENT FOR NET METERING FACILITIES

THE	AGREEMENT is made and entered into on this day of , the control of the Current of
	hereinafter called the NET METERING CUSTOMER, and the Guar
Pow	er Authority, hereinafter called GPA.
THE	NET METERING CUSTOMER hereby applies for interconnection of a Qualifyin
Custo	omer Generator up to 25 kW in capacity to the GPA Distribution System in accordance wit
ЭРА	Service Rules and Regulations, rate schedules, and the GPA Net Metering Program
	connection Policy (AP-0). This Agreement shall be supplemental to GPA'
	ard "Application and Agreement for Electric Service."
he (	Guam Power Authority hereby agrees to interconnect the Net Metering Customer at th
	nated service location in accordance with applicable polices and regulations pursuant to th

designated service location in accordance with applicable polices and regulations plustiant to the following conditions including those conditions provided in GPA's "Application and Agreement for Electric Service:"

- 1. Application Fee The Net Metering Customer shall be assessed a non-refundable application fee of \$50 as part of this Standard Interconnection Agreement.
- Required Documentation In accordance with the Authority Policy, attach all required documentation. All design and construction drawings must be signed and stamped by a licensed Professional Engineer.
- 3. Safe Operations and Maintenance The Net Metering Customer shall be fully responsible to operate, maintain, and repair the Generating Facility as required to ensure that it complies at all times with the GPA Authority Policy for Net Metering.
- 4. Access The Guam Power Authority shall have access to the metering equipment of the Generating Facility at all times. GPA shall provide reasonable notice to the Customer when possible prior to using its right of access.
- 5. Disconnection GPA may disconnect the Generating Facility in accordance with the GPA
  Authority Policy for Net Metering
- 6. Billing In accordance with the Interim Net Metering Rider as adopted by the PUC under Docket 08-10, net metering customers shall be billed on a monthly basis energy charges applicable under the currently effective standard rate schedule and any appropriate rider schedules including the Levelized Energy Adjustment Clause and other clauses as well as surcharges. No excess energy credits shall reduce any fixed monthly customer charges.
  - a. Monthly charges for energy to serve the customer's net or total load shall be determined according to GPA's standard service tariff under which the customer

- would otherwise be served, absent the customer electric generating facility. Energy charges under the customer's standard tariff shall be applied to the customer's net energy for the billing period to the extent that the net energy exceeds zero.
- b. If the customer's net energy is zero or negative during the billing period, the customer shall pay only the non-energy charge portions of the standard tariff bill. If the customer's net energy is negative during a billing period, the customer shall be credited in the next billing period for the kWh difference. When the customer elects no longer to take service as a Net Metering Customer, any unused credit shall revert to GPA. Excess electricity credits are not transferable between customers or locations.
- c. In no event shall the excess credit from a single month be carried forward beyond 12 months as a credit against the current monthly bill. At the end of each calendar year, or in the event of termination of service, any excess kWh credits, if any, will be granted by the customer to GPA without compensation to the customer.
- 7. Indemnification GPA shall not be liable directly or indirectly for permitting or continuing to allow the attachment of a Net Metering Facility, or for the acts or omissions of the customer Generator that causes loss or injury, including death, to any third party.
- 8. Insurance The Customer is not required to provide general liability insurance coverage as part of this Agreement.
- 9. Limitation of Liability Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
- 10. Termination The agreement to operate in parallel may be terminated under the following conditions:
  - a. By the Customer By providing at least 60 days written notice to GPA
  - b. By GPA At any time by providing written notice to Customer if the Generating Facility fails to operate for any consecutive 12 month period or the Customer fails to remedy a violation or operates the net Metering Facility in a manner that is detrimental to GPA or its customers
  - c. Permanent Disconnection In the event this Agreement is terminated, GPA shall have the right to disconnect its facilities and/or direct the Customer to disconnect its Facility.
  - d. Survival Rights This Agreement shall continue in effect after termination to the extent necessary to allow or require either Party to fulfill rights or obligations that arise under the Agreement.

- 11. Assignment/Transfer of Ownership of the Facility This Agreement shall survive the transfer of ownership of the Generating Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies GPA.
- 12. Contract Period The Contract Period for service under this Agreement shall be one year and thereafter shall be renewed for successive one-year periods.
- 13. Certification By signing below, customer acknowledges and agrees to abide by the terms of this Agreement. Furthermore, customer certifies that the customer facility is a Net Metering Facility and meets the requirements established by the Guam Public Utilities Commission

GPA Authorized Representative (Print/Sign)	тынараранда ы чэгдэг о о озохуулаг оос о о	Applicant (Print/Sign)
Date:	SSN:	
	Date:	
		Co-Applicant (Print/Sign)
	SSN:	
	Date:	eologoonidas e kanaleks ylii 1864 too kari kankara koo oo ka yagaya ya kagaya ay dagaa ay liikii hali dabaa ay maa ka ka kanala ka
	Home Phone:	
	Work Phone:	

# GPA CUSTOMER SERVICES DIVISION NET METERING CUSTOMER INFORMATION

Existing Account Number:		
turally and Manage	Co-Applicant's Name:	
Applicant's Name:	Co-Applicant's	
applicant's ID No:		
Iome Phone No.:	Work Phone No.:	
failing Address:	and the second angular and the second filters, to define a common of the second	THE STREET CONTROL TO THE STREET STREET STREET
ervice Location:		
Pleas	se draw a map to your premises	

#### **GENERATOR QUALIFICATIONS**

An application is a Complete Application when it provides all required applicable information. (Additional information to evaluate a request for interconnection may be required and will be so requested from the Applicant by GPA after the application is deemed complete).

Energy Source					
Fuel Cells	Microturbines	Wind	Biomass		Hydroelectric
Solar		Other (Plea	ase Specify)		
Interconnection Custom	ner or Customer-Site Load:	According to the state of the s	onga, giganomin neggi pingangan negara pagan selagah penggah selakaran negara selakaran selakaran selakaran se	kW	
Typical Reactive Load				kVAR	
Maximum Physical Exp	oort Capability:		Control and the Second Section of the Section of th	kW	
Generator (or Solar Col	lector)				
Manufacturer, Model N	ame & Number:		approximately graving graving armines account of the second secon	***************************************	······································
Version Number: Nameplate Output Powe Nameplate Output Powe	r Rating in kW:				
Rated Power Factor	Leading:		Lagging:		
Total Number of Genera Elevation	tors in wind farm to be inte		(if applicable): igle phase	404444	Three phase
Inverter					
Manufacturer, Model Na	me & Number:	te <del>ntige</del> s de sengue aveil de sengue pe <mark>r transference à l'</mark> est de l'est comme de l'est de se		n o I (n) consistent entre la	
Interconnecting Circuit I	Breaker	A CANAL STATE OF THE STATE OF T	n gundala turunta di sayunda kurunta di sayunda di sayunda sayunda sayunda sayunda sayunda sayunda sayunda say	HA	and the second s
Manufacturer:		Туре:			····
Load Rating (Amps):	Interrupting Ratin (Amps):	8	Trip (Cyc	Speed les):	

List components of the Net Metering Facility that are currently certified:

Equi	oment Type	Certifying Entity
1.		
2.		444444444444444444444444444444444444444
_		
Applicant Certification	Ballender of the second se	
I hereby certify that, to the Qualifications is true and		the information provided under Generator
Signature of Applicant:		Date:
Installing Electrician:		
License No.:		The second secon
Home Phone No.:	w	ork Phone No.:
Mailing Address:		

		No.: AP-0	Issued:			
GUAM POWER	AUTHORITY	Prepared By:				
Authority Policy		M.R. CAMACHO, P.E. Mgr Engineerin				
Title: NET METERING PROGRAM		Approved By:				
INTERCONNECTION POLICY		J.C. FLORES,	P.E. General Mgr			
Effective Date:	Supersedes No.		Page 1 of			

#### 1.0 PURPOSE

The purpose of this document is to establish criteria and requirements for the safe and reliable operation of interconnected customer-owned generating facilities, as part of the Guam Power Authority's Net Metering Program in accordance with Public Laws 27-132 and 29-62.

#### 2.0 SCOPE

- 2.1 Customers are allowed to interconnect customer-owned generating facilities with a capacity not to exceed 25 kW.
- 2.2 The interconnected generating facility's primary purpose shall be to generate energy to serve all or a part of the customer's load.
- 2.3 A Net Metering Customer must comply with this policy, execute a "Standard Interconnection Agreement for Net Metering Facilities" with GPA, receive GPA Engineering approval, and submit a GPA Inspection report signed by an authorized DPW Inspector before Parallel Operation of a Generating Facility with GPA's Distribution System.
- 2.4 The specifications and requirements listed herein are intended to mitigate possible adverse impacts caused by the Customer Facility on GPA equipment and personnel and on other GPA customers. This policy is not intended to address protection of the Customer Facility itself or its internal load. The Net Metering Customer is responsible for complying with the requirements of all applicable standards, codes, statutes and authorities to protect itself and its loads.

#### 3.0 **DEFINITIONS**

- 3.1 Net Metering: Measuring the difference between the electricity supplied by a utility and the electricity generated by a qualifying customer-generator, which is fed back to the utility over the applicable billing period.
- 3.2 Qualifying Capacity: A qualifying customer generator that produces no more than 25 kW of energy.

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	EYUIRIT "R"	

- 3.3 Application: The notice provided by the Customer to GPA, which initiates the interconnection process.
- 3.4 GPA Inspection Report: Form provided by GPA and completed by the authorized Department of Public Works (DPW) Electrical Inspector having jurisdiction over the installation, indicating acceptance of construction.
- 3.5 Net Metering Customer (Customer): The person who owns and/or operates the customer facility interconnected to the GPA distribution system.
- 3.6 Qualifying Customer Generator: A non-GPA owned equipment for producing electricity that uses fuel cells, microturbines, wind, biomass, hydroelectric, solar energy or a hybrid system consisting of these facilities, as its primary source of fuel
- 3.7 GPA Distribution System: All GPA power facilities rated 15 kV and below by which GPA provides power service to customers.
- 3.8 Net Metering/Customer Facility: A qualifying customer generator located on the Customer's premises along with all facilities ancillary and appurtenant thereto, including interconnection equipment, which the Customer requests to interconnect to the GPA Distribution System.
- 3.9 Island; Islanding: A condition on GPA's Distribution System in which one or more Customer Generating Facilities deliver power to customers using a portion of GPA's Distribution System that is electrically isolated from the remainder of GPA's Distribution System.
- 3.10 In-Service Date: The date on which the Customer Facility is complete, inspection approval is received by DPW and the facility is ready for service, even if the facility is not placed in service on or by that date.
- 3.11 Standard Interconnection Agreement for Net Metering Facilities: An agreement for interconnection service, between the Net Metering Customer and GPA. The agreement also includes any amendments or supplements thereto entered into by the Net Metering Customer and GPA.
- 3.12 Point Of Common Coupling (PCC): The point where the Net Metering Customer's local electric power system connects to the GPA distribution system. For overhead systems, the PCC is the weather head. For underground or hybrid installations, the PCC is the nearest GPA handhole or pad mounted transformer.
- 3.13 Utility: Guam Power Authority (GPA).

#### 4.0 APPLICABLE CODES AND STANDARDS

The following codes and standards shall form a part of this policy, including the latest revisions with respect to material, design and tests.

- 4.1 IEEE Std 1547-2003 Standard for Interconnecting Distributed Resources with Electric Power Systems
- 4.2 UL Standard 1741, Inverters, Converters, and Controllers for Use in Independent Power Systems Equipment must be UL listed
- 4.3 IEEE Standard 929-2000, IEEE Recommended Practice for Interface of Photovoltaic (PV) Systems
- 4.4 ANSI Standard C37.90, IEEE Standard for Relays and Relay Systems Associated with Electric Power Apparatus
- 4.5 ANSI C84.1-1995 for Electric Power Systems and Equipment—Voltage Ratings (60 Hertz)
- 4.6 Equipment covered by this specification shall conform to all applicable industry standards including the National Electric Code (NEC), National Electric Safety Code (NESC), the Institute of Electrical and Electronics Engineers (IEEE), American National Standards Institute (ANSI), Underwriters Laboratories (UL) standards, ASTM, and ICEA
- 4.7 All safety and operating procedures for joint use equipment shall be in compliance with the Occupational Safety and Health Administration (OSHA) Standard 29, CFR 1910.269, the NEC, Washington Administrative Code (WAC) rules, the Washington Industrial Safety and Health Administration (WISHA) Standard, and equipment manufacturer's safety and operating manuals.
- 4.8 Power Quality. Installations shall be in compliance with all applicable standards including IEEE Standard 519-1992 Harmonic Limits.
- 4.9 All local and federal building codes

#### 5.0 GENERAL REQUIREMENTS

- 5.1 Any GPA Customer wishing to install a qualifying customer facility under this net metering program must first make application at any GPA Customer Services Office during normal business hours.
- 5.2 Any Net Metering Facility desiring to interconnect with the GPA Distribution System or modify an existing interconnection must meet all general requirements, in their most current approved version at the time of interconnection. GPA

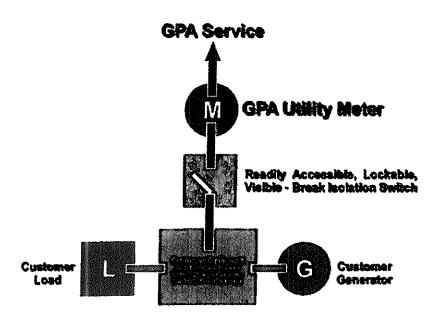
CODES: \* REVISED # ADDED

reserves the right to require the customer, at the customer's expense, to provide corrective action or additions to existing electrical facilities in the event that GPA or other Government Regulations are modified.

- 5.3 The specifications and requirements listed herein shall apply generally to the Qualifying Customer Generator throughout the period encompassing the Net Metering Customer's installation, testing commissioning operation, maintenance, decommissioning and removal of said equipment. GPA may verify compliance at any time.
- 5.4 The Customer shall conform to all applicable codes and standards as provided in Section 4.0 for safe and reliable operation.
- The Customer shall submit construction drawings (minimum size 18" x 24"; 5.5 maximum size of 30" x 42") to GPA Engineering for review and approval including a Site Plan, One Line Diagram, Electrical Load Calculations and other details as necessary signed and stamped by a licensed Professional Engineer having lurisdiction.
- All interconnection equipment must be approved by GPA prior to being 5.6 connected to the GPA Distribution System and before parallel operation is allowed. Consequently, the Customer shall submit equipment data sheets and other technical information to GPA for review and approval.
- The Customer shall be responsible to obtain all required construction and 5.7 operating permits for the installation of equipment on his property.
- GPA shall install, own, and maintain a kilowatt-hour meter. The method of 5.8 accounting for the electricity under net metering is with a single, reversible meter. The customer shall be responsible for providing the meter socket, conductors, and appurtenances in accordance with GPA Service Rules and Regulations.
- 5.9 Common labeling approved by GPA and in accordance with NEC requirements must be posted on the meter base, disconnects, and other pertinent equipment stating that generation is operating at or is located on the premises.
- The customer is required to coordinate closely with GPA Engineering for inspections and approvals of the net metering facility.
- 5.11 GPA will interconnect the facility at the Point Of Common Coupling (PCC) after an authorized DPW Electrical Inspector signs the GPA Inspection Report indicating acceptance of construction on the customer premises.
- 5.12 All costs including labor, equipment, and materials associated with interconnecting a net metering customer to the GPA distribution system shall be charged to the customer.

# ADDED CODES: \* REVISED

#### 6.0 INTERCONNECTION REQUIREMENTS



### Sample One-Line Diagram

#### 6.1 Inverter

The Customer shall connect the load and generating equipment to the GPA source via a grid tie DC/AC inverter in accordance with applicable codes as illustrated in the Sample One-Line Diagram.

- 6.2 Visible Break/Lockable Isolation Switch
  - 6.2.1 The Customer shall furnish and install on the Customer's side of the meter a UL approved safety disconnect switch which shall be capable of fully isolating the Customer's generator from the GPA electric system. The disconnect switch shall be located adjacent to GPA's meter and shall be of the visible break type and placed in a metal enclosure with scaling provisions. The disconnect switch shall be accessible to GPA personnel at all times.
- 6.3 GPA shall have the right to disconnect the Customer Facility from GPA's system at the disconnect switch:

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- 6.3.1 To maintain safe electrical operating conditions; or
- 6.3.2 In the event the Customer Facility does not meet required standards; or,
- 6.3.3 if the Facility at any time adversely affects GPA's operation of its electrical system or the quality of GPA's service to GPA customers.

#### 6.4 Voltage and Phasing

The nominal voltage and phase configuration of the Customer's generation must be compatible with GPA's system at the Point of Common Coupling (PCC).

6.5 In the event of a utility power outage, the net metering facility must be able to automatically disconnect from utility power to ensure power is not fed back into the GPA power grid. This is extremely important during restoration/ repair situations where power fed into the GPA grid poses a safety hazard to distribution crews working on the system and the community who may come in contact with downed lines and equipment.

#### 6.6 Protection Requirements

- 6.6.1 The protective functions and requirements of this policy are designed to protect GPA's Distribution System and not the customer facility or loads connected to the customer facility. The customer shall be solely responsible for providing adequate protection for its facility.
- 6.6.2 The customer's protective devices shall not adversely impact the operation of other protective devices utilized on GPA's Distribution System
- 6.6.3 A customer facility operating in parallel with GPA's Distribution System shall be equipped with the following protective features:
  - a. Over and under voltage trip functions; and
  - b. Over and under frequency trip functions; and
  - c. Voltage and frequency sensing and time-delay functions Preventing the customer generator from energizing a de-energized GPA Distribution System and preventing the generator from reconnecting unless GPA's service voltage and frequency is within the range specified by ANSI C84.1-1995 Table 1 Range B (Voltage Range of 106 V to 127 V on a 120 V basis, inclusive, and a frequency range of 59.3 Hz to 60.5 Hz, inclusive, and is stable for at least 60 seconds); and
  - d. A function to prevent the customer facility from contributing to the formation of an unintended Island, and ceasing to energize the GPA Distribution System within two (2) seconds of the formation of an unintended Island.

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e. A function to automatically disconnect the customer facility from the GPA Distribution System for faults on GPA's Distribution System.

#### 6.7 Interference

- 6.7.1 The Customer shall not operate a generating facility in parallel with GPA that superimposes a voltage or current upon GPA's Distribution System interfering with GPA operations, with service to GPA customers, or with communication facilities.
- 6.7.2 To climinate undesirable interference, each Generating Facility shall meet the following criteria:
  - a. Voltage Regulation. The Generating Facility shall not actively regulate the voltage at the PCC while in parallel with GPA's Distribution System
  - b. The Generating Facility shall not cause the service voltage at other customers to go outside the requirements of ANSI C84.1-1995, Range A (IEEE 1547-4.1.1)
- 6.7.3 If such interference occurs, the Customer must take corrective action at its own expense after being given notice and reasonable time to do so by GPA. If the Customer does not take corrective action in the time provided by GPA, or continues to operate the facility causing interference without restriction or limit, GPA may, without liability, disconnect the Customer Facility from GPA's Distribution System.

#### 7.0 BILLING

- 7.1 In accordance with the Interim Net Metering Rider as adopted by the PUC under Docket 08-10, net metering customers shall be billed on a monthly basis energy charges applicable under the currently effective standard rate schedule and any appropriate rider schedules including the Levelized Energy Adjustment Clause and other clauses as well as surcharges. No excess energy credits shall reduce any fixed monthly customer charges, if any.
- 7.2 Monthly charges for energy to serve the customer's net or total load shall be determined according to GPA's standard service tariff under which the customer would otherwise be served, absent the customer electric generating facility. Energy charges under the customer's standard tariff shall be applied to the customer's net energy for the billing period to the extent that the net energy exceeds zero.
- 7.3 If the customer's net energy is zero or negative during the billing period, the customer shall pay only the non-energy charge portions of the standard tariff bill. If the customer's net energy is negative during a billing period, the customer shall

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be credited in the next billing period for the kWh difference. When the customer elects no longer to take service under this Net Metering Program, any unused credit shall revert to GPA. Excess electricity credits are not transferable between customers or locations.

7.4 In no event shall the excess credit from a single month be carried forward beyond 12 months as a credit against the current monthly bill. At the end of each calendar year, or in the event of termination of service, any excess kWh credits, if any, will be granted by the customer to GPA without compensation to the customer.

CODES: \* REVISED # ADDED

#### BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN THE MATTER OF:	) GPA Docket 22-02	6,117110
The Application of the Guam Power Authority Requesting Approval of the Procurement of a Performance Management Contract (PMC) for the Management, Operation and Maintenance of the GPA Fuel Farm Bulk Storage Facility	) ) ) ) ORDER ) )	PECEIVED  DEC 0 2 2021  Public Dishing Commission  GIAM

#### **INTRODUCTION**

 This matter comes before the Guam Public Utilities Commission [PUC] upon the Request of Guam Power Authority ["GPA"] for Approval of the Procurement of a Performance Management Contract ["PMC"] for the Management, Operation and Maintenance of the GPA Fuel Farm Bulk Storage Facility.<sup>1</sup>

#### **BACKGROUND**

- 2. On August 31, 2017, the PUC approved the Performance Management Contract between GPA and IP&E Guam LLC for the Management, Operation and Maintenance of the GPA Fuel Farm Bulk Storage Facility.<sup>2</sup>
- 3. The PMC with IP&E had an initial two (2) year term which expired on September 30, 2019. However, prior to expiration of the Contract, the PUC extended the PMC for the first of three one-year extensions.<sup>3</sup>

<sup>&</sup>lt;sup>1</sup> GPA Petition for Approval of the Procurement of a Performance Management Contract (PMC) for the Management, Operation and Maintenance of the GPA Fuel Farm Bulk Storage Facility, GPA Docket 22-02, filed November 8, 2021.

<sup>&</sup>lt;sup>2</sup> PUC Order, GPA Docket 17-04, dated August 31, 2017, at p. 3.

<sup>&</sup>lt;sup>3</sup> PUC Order, GPA Docket 19-08, dated March 28, 2019, at p. 2.

Order Request for approval of A PMC for Fuel Farm GPA Docket 22-02 December 2, 2021

4. On February 27, 2020, the PUC authorized GPA to exercise the second and third one-year options to extend the Performance Management Contract with IP&E Guam

LLC. The current IP&E PMC will now expire on September 30, 2022.4

5. In its current Petition, GPA requests that the PUC authorize it to procure a new Performance Management Contract for the GPA Fuel Farm Bulk Storage Facility.<sup>5</sup> GPA seeks to begin the process now so that there will be sufficient time to carry out the procurement.

- 6. After the procurement is completed and an award is made, GPA anticipates that the new PMC would commence for a three (3) year period on or about October 1, 2022 and continue until midnight on September 30, 2025. GPA would then be able to extend the Contract for two (2) additional one-year (1-year) terms, with the mutual consent of both parties. The PMC could possibly extend until September 30, 2027.6
- 7. Along with its procurement request, GPA has submitted a draft Invitation for Multi-Step Bid for the Management, Operation and Maintenance of the GPA Fuel Bulk Storage Facility. The IFB contains four Volumes:

Volume I, Commercial Terms and Conditions

Volume II, Technical and Functional Requirements

Volume III, Facility Technical Description

Volume IV, Performance Management Contract.<sup>7</sup>

<sup>&</sup>lt;sup>4</sup> PUC Order, GPA Docket 20-08, dated February 27, 2020, at p. 3.

<sup>&</sup>lt;sup>5</sup> GPA Petition for Approval of the Procurement of a Performance Management Contract (PMC) for the Management, Operation and Maintenance of the GPA Fuel Farm Bulk Storage Facility, GPA Docket 22-02, filed November 8, 2021, at p. 2.

<sup>&</sup>lt;sup>6</sup> Invitation for Multi-Step Bid, No. GPA-\_\_\_\_-21, Performance Management Contract, Volume IV, §5.1.

<sup>&</sup>lt;sup>7</sup> On November 8, 2021, GPA submitted copies of the four volumes of the IFB to the PUC.

Order Request for approval of A PMC for Fuel Farm GPA Docket 22-02 December 2, 2021

- 8. The procurement documents set forth, in detail, a description of the Fuel Farm Facility, the technical requirements for the bid, the duties of the Performance Management Contractor, and a draft of the proposed Contract.
- 9. The extensive obligations of the Performance Management Contractor are indicated in Section 9 of the Performance Management Contract, a true and correct copy of which is attached to the ALJ Report as Exhibit "1".
- 10. In Guam Consolidated Commission on Utilities Resolution No. FY2022-02, the CCU authorized the GPA General Manager to proceed with the solicitation for a Contract for the Management, Operation and Maintenance of GPA's Fuel Bulk Storage Facility.8
- 11. The CCU approved the solicitation of a contract with a base period of three (3) years with an option to extend for up to two (2) additional one-year terms.<sup>9</sup>
- 12. The ALJ filed his Report herein dated November 26, 2021<sup>10</sup>. The PUC adopts the conclusions and recommendations set forth therein.

#### **DETERMINATIONS**

13. GPA has submitted a draft PMC that the selected bidder would be required to enter into. This form of contract has been used for many years for the PMC for the Fuel Bulk Storage Facility, since at least 2012. In form, the proposed PMC should be

<sup>&</sup>lt;sup>8</sup> Guam Consolidated Commission on Utilities Resolution No. FY2022-02, Authorizing Management of the Guam Power Authority to Solicit a Contract for the Management, Operation and Maintenance of GPA's Fuel Bulk Storage Facility, adopted and approved on October 26, 2021.

<sup>9</sup> Id.

<sup>&</sup>lt;sup>10</sup>ALJ Report, GPA Docket 22-02, dated November 26, 2021.

adequate to require proper performance by the Contractor, and to protect the interests of GPA and the ratepayers.

- 14. The Contract describes the obligations of the Performance Management Contractor in detail, including its broad scope of responsibility. Contract provisions include contractor warranty, remediation of defective work, default, termination for convenience, insurance, and indemnity provisions.<sup>11</sup>
- 15. The PUC previously determined that the PMC for the Fuel Bulk Storage Facility should be adequate to require proper performance by the Contractor, and that a PMC for that facility is reasonable, prudent, and necessary.<sup>12</sup>
- 16. Actual expenditures over the five years of the current PMC have increased considerably, from \$765,464 in FY2018 to \$799,958 in FY2021. The anticipated expenditure for FY2022 is higher again, with an approved budget of \$917,493.<sup>13</sup>
- 17. It appears likely that GPA wishes to test the market to determine whether it can obtain competitive price bids in the proposed procurement.

#### ORDERING PROVISIONS

After review of the record herein, GPA's Petition for Approval of Procurement of a Performance Management Contract (PMC) for the Management, Operation and Maintenance of the GPA Fuel Farm Bulk Storage Facility, and the ALJ Report, for good cause shown, on motion duly made, seconded, and carried by the undersigned

<sup>&</sup>lt;sup>11</sup> Invitation for Multi-Step Bid No. GPA-\_\_\_-21, Performance Management Contract, filed November 8, 2021

<sup>&</sup>lt;sup>12</sup> PUC Order, GPA Docket 20-08, dated February 27, 2020, at p. 3.

<sup>&</sup>lt;sup>13</sup> See Exhibit "2" attached to the ALJ Report, which are Contract Breakdown costs and History, submitted with the GPA Petition.

Order Request for approval of A PMC for Fuel Farm GPA Docket 22-02 December 2, 2021

Commissioners, the Guam Public Utilities Commission **HEREBY ORDERS** that:

- GPA's Procurement of a Performance Management Contract (PMC) for the Management, Operation and Maintenance of the GPA Fuel Farm Bulk Storage Facility is approved.
- 2. However, since the cost for such a PMC is presently unknown, GPA is required to seek PUC approval of its final PMC Contract.
- 3. GPA is ordered to pay the Commission's regulatory fees and expenses, including, without limitation, consulting and counsel fees and the fees and expenses of conducting the hearing proceedings. Assessment of PUC's regulatory fees and expenses is authorized pursuant to 12 GCA §§12103(b) and 12125(b), and Rule 40 of the Rules of Practice and Procedure before the Public Utilities Commission.

[SIGNATURES TO FOLLOW ON NEXT PAGE]

Dated this 2nd day of December 2021.

Jeffrey C. Johnson

Chairman

Rowena E. Perez-Camacho Commissioner

Joseph M. McDonald

Commissioner

Michael A. Pangelinan

Commissioner

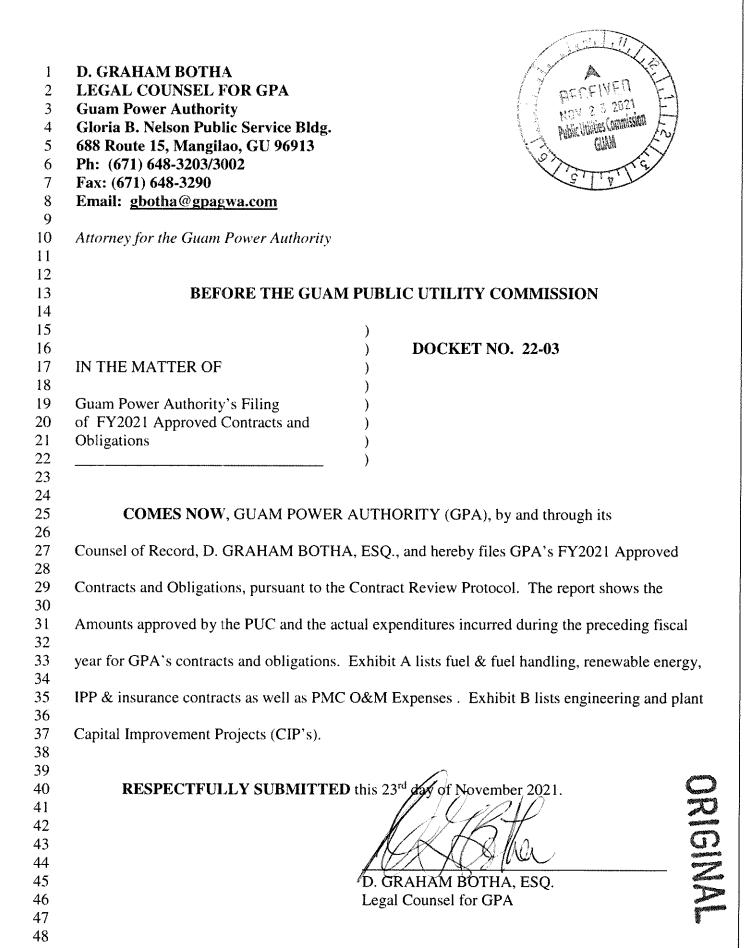
Peter Montinola Commissioner

Doris Flores Brooks

Commissioner

Pedro S.N. Guerrero

Commissioner





## **GUAM POWER AUTHORITY**

#### ATURIDÅT ILEKTRESEDÅT GUAHAN P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

December 1, 2021

**Guam Public Utilities Commission** Mr. Fred Horecky, Legal Counsel **Guam Public Utilities Commission** 643 Chalan San Antonio, Suite 102B Tamuning, Guam 96913

SUBJECT:

Fiscal Year 2021 Contracts & Capital Improvement Projects (CIP)

Variance Report (Un-Audited)

Docket No. 22-03 FY2021 Contracts & Obligations

Dear Judge Horecky:

Attached are Guam Power Authority's Fiscal Year 2021 Contracts & Obligations (Exhibit A) and CIP Variance Report (Exhibit B) information for your perusal.

As per the Contract Review Protocol: Section 9 – "GPA shall, on or before December 1 of each year, file a report on the contracts and obligations approved by PUC for the prior fiscal year pursuant to this protocol. This report shall show the amount approved by PUC and the actual expenditures incurred during the preceding fiscal year for each such contract and obligation and other changes from the prior filing in cost estimates, start dates and in service or completion dates."

Should you have any questions, please contact Mr. John J.E. Kim, Chief Financial Officer at 648-3120.

Sincerely,

TEJOHN M. BENAVENTE, P.E.

General Manager

**EXHIBIT B** 

# GUAM POWER AUTHORITY (GPA) FY2021 CIP VARIANCE REPORT PUC CAPITAL IMPROVEMENT PROJECTS REVIEW DOCKET

CIP SUMMARY		FY 2021 ADJUSTED BUDGET	FY 2021 UN-AUDITED ACTUALS		% Used	VARIANCE		
REVENUE FUNDED :								
GENERAL PLANT:	\$	12,334,801	\$	3,604,036	29.22%	\$	8,730,765	
ENGINEERING PROJECTS:	\$	5,404,000	\$	4,369,077	80.85%	\$	1,034,923	
LINE EXTENSIONS:	\$	2,961,645	\$	2,960,301	99.95%	\$	1,344	
TOTAL REVENUE FUNDED CIP:	\$	20,700,446	\$	10,933,414	<u>52.82</u> %	\$	9,767,032	

#### NOTE:

Prepared by:

Monica C. Calvo, Budget Analyst 11/17/2021

<sup>1)</sup> Reflects "un-audited" actual expenditures at the end of fiscal year (9/30/21); subject to change

<sup>2) \$5</sup>M reduction for LEAC due to PUC mandate

<sup>2) \$6</sup> million obligated in FY21, carried into FY22 (i.e. Heavy equipment vehicles, Continuation Generation Overhauls and Engineering Projects)

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A.6			A.5	A.4	A.3	A.2			A.1		Α	
5.65MW Renewable Energy Contract (Multi-Step Bid GPA-027-11)	Renewables:	Total Dissel Fuel	Cabras 1 & 2 / Piti 8 & 9 / Manenggon / Talofofo	GPA Plants (Various) - Diesel	Yigo/Aggreko/Dededo & Macheche (CT plants)	Temes CT Plant (Piti 7)	Diesel Fuel:			Residual Fuel:	Fuel Related Contracts	CONTRACTS CATEGORY
NRG Solar Dandan			Mobil Oil Guam Inc.	IP&E Guam	Mobil Oil Guam Inc. / IP&E Holdings LLC	Mobil Oil Guam Inc.			Hyundai Corporation / Mobil Oil Guam			VENDOR
\$ 2,355,272		\$ 65,995,297	\$ 2,068,800	\$ 6,927,230	\$ 42,914,107	\$ 14,085,200		\$ 155,893,493 <i>)</i>				FY2021 ADJUSTED BUDGET
\$ 2,180,791		\$ 53,768,540	\$ 1,282,709	\$ 3,055,535	\$ 36,396,690	\$ 13,033,607		* 2.0 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	\$ 131,246,450			FY2021 UNAUDITED ACTUALS as of 09/30/21
\$ 174,481		8 12/226,797	\$ 786,091	\$ 3,871,695	\$ 6,517,417	\$ 1,051,593			\$ 4,647,407			BUDGET BALANCE
FY2015: 01/01/2015-09/30/2015; 9 Months of 1st Year of 3 Year Contract Term. FY2016: 10. 12/31/2015; 1st. Year of 3 Year Contract Term Completed. 01/01/2016 - 09/30/2016; 9 Month Year Contract Term. FY2017: 10/01/2016 - 12/31/2016; 2nd. Year of 3 Year Contract Term. Contract Term. FY2017: 9 Months of 3rd. Year of 3 Year Contract Term. FY2018: 10/01/20 Year of 3 Year Base Contract Completed. 01/01/2018 - 09/30/2018; 9 Months of 1st. Year of Renew. FY2019: 10/01/2018 - 12/31/2018; Last 3 months of 1st year of 2nd year Option to rot/101/2019 - 09/30/2019; 9 Months of 2nd Year of 2 Year Option to Renew. FY2020: Contract Year 5 starts on October 30, 2019. FY2021: Contract Year 6 of 25. Contract Year 30, 2020.			FY2020: 01/01/20 to 09/30/20 - 9 months of 1st year of 2 year base contract term.; FY2021: 12/31/20 - 1st year of 2 year base contract completed.; 01/01/21 to 09/30/21 - 9 months of 2r base contract term	FY2020: 01/01/20 to 09/30/20 - 9 months of 1st year of 2 year base contract term.; FY2021: 12/31/20 - 1st year of 2 year base contract completed.; 01/01/21 to 09/30/21 - 9 months of 2r base contract term	FY2020: 01/01/20 to 09/30/20 - 9 months of 1st year of 2 year base contract term.; FY2021: 12/31/20 - 1st year of 2 year base contract completed.; 01/01/21 to 09/30/21 - 9 months of 2r base contract term	FY2020: 01/01/20 to 09/30/20 - 9 months of 1st year of 2 year base contract term.; FY2021: 12/31/20 - 1st year of 2 year base contract completed.; 01/01/21 to 09/30/21 - 9 months of 2r base contract term			4,647,407 (Mobilization) 09/01/20 to 09/30/20 - 1 month of 1st year of 3 year base contract; <u>FY</u> : 08/31/21 - 1st year of 3 year base contract completed.; 09/01/21 to 09/30/21 - 1 month of 2nc contract			CONTRACT YR

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A.9	A.8			A.7	
Storage Tank Lease Fees	Storage Tank Lease Fees (TTGI-SA-2018-01	Fuel Handling:	Total Ranavables	20MW Renewable Energy Contract (Multi-Step Bid GPA-027-11)	CONTRACTS CATEGORY
TriStar Terminals Guam	TriStar Terminais Guam			NRG Solar Dandan	VENDOR
\$ 1,865,641	\$ 1,356,000		290'962'01. g	\$ 7,938,570	FY2021 ADJUSTED BUDGET
\$ 1,784,525	\$ 1,176,000		6 0.048,002	6.1	FY2021 UNAUDITED ACTUALS as of 09/30/21
\$ 81,116	\$ 180,000		8 368.700	\$ 789,409	BUDGET BALANCE
FY2018: 10/01/2017 - 08/31/2018; 5 Year Storage Agreement Completed.; 9/1/18-month of 1st year of 4 year contract extension. FY2019 - 10/01/2018 - 08/31/2019 Year Contract Extension completed. 09/01/2019 - 09/30/2019; 1st. Month of 2nd. Contract Extension. FY2020 - 10/01/2019 - 08/31/2020; 2nd. Year of 4 Year Contract completed. 09/01/2020 - 09/30/2020; 1st. Month of 3rd. Year of 4 Year Contract Extension. (CCU Resolution 09/30/2021; 1st. Month of 4th. Year of 4 Year Contract Extension. (CCU Resolution Docket 18-10)	FY2014: 10/01/2013 - 08/31/2014; 1st Year of 5 Year Base Contract Completed. 09/09/30/2014; 1 Month of 2nd Year of 5 Year Base Contract. FY2015: 10/01/2014 - 0. Year of 5 Year Base Contract. Completed. 09/01/2015 - 09/30/2015; 1 Month of 3rd Base Contract; FY2016: 10/01/2015 - 08/31/2016 3rd Year of 5 Year Base Contract in 09/01/2016 - 09/30/2016; 1 Month of 4th Year of 5 Year Base Contract. FY2017: 10/09/01/2017 - 09/30/2016; 1 Month of 4th Year of 5 Year Base Contract. FY2017: 10/08/31/2017 4th Year of 5 Year Base Contract Completed. 09/01/2017 - 09/30/2017 Year of 5 Year Base Contract. FY2018: 10/01/17 - 08/31/2018; 5 Year Contract Completed Expiration Date to 09/30/2018, Ref.: Contract No.: TTGI-SA-2018-01. FY201 09/30/2019; 4 Year Extension (01/01/2019 - 12/31/2022), Ref.: TTGI-SA-2018-01.			FY2015: 01/01/2015-09/30/2015; 9 Months of 1st Year of 3 Year Contract Term. FY2016: 10/12/31/2015; 1st. Year of 3 Year Contract Term Completed. 01/01/2016 - 09/30/2016; 9 Month Year Contract Term. FY2017: 10/01/2016 - 12/31/2016; 2nd. Year of 3 Year Contract Term C 01/01/2017 - 09/30/2017; 9 Months of 3rd. Year of 3 Year Contract Term. FY2018: 10/01/20 Year of 3 Year Base Contract Completed. 01/01/2018 - 09/30/2018; 9 Months of 1st. Year of Renew. FY2019: 10/01/2018 - 12/31/2018; Last 3 months of 1st year of 2nd year Option to 01/01/2019 - 09/30/2019; 9 Months of 2nd Year of 2 Year Option to Renew. FY2020: Contract Completed Starts on 10/30/2020	CONTRACT YR

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197 2018: 10/01/2017 - 09/30/2018; 1 Year Base Contract Completed. PY2019: 10/0. 09/30/2019; 2nd. Year of 2 Year Base Contract Completed. FY2020: 10/01/2019 - Year of Three (3) Additional One-Year (1-year) Term. FY2021: 10/01/20 to 09/30/additional onE year terms	\$ 571,479	799,091	\$ 1,370,570   \$	IP&E Holdings	Fuel Farm Management	A.12
10/01/2013-08/31/2014; 11 Months of 1st Year of 5 Year Lease Contract. 09/01/20 Year of 5 Year Contract COMPLETED. 10/01/2014-08/31/2015; 11 Months of 2nd Y Contract. 09/01/2015-09/30/2015; 2nd Year of 5 Year Contract COMPLETED. 10/01 08/31/2016; 11 Months of 3rd Year of 5 Year Lease Contract. 09/01/2016-09/30/2017; 10/01/2016-08/31/2017; 11 Months of 4th Year Contract. 09/01/2017-09/30/2017; 1 Month 5th Year of 5 Year Lease Contract. FYZ 08/31/2018 5th Year of 5 Year lease Contract COMPLETED. AMENDMENT I extend from 08/31/2018 to now read 09/30/2018. FYZ 019 - 10/01/2018 - 08/31/2019; 1st Lease Contract Completed. 09/01/2019 - 09/30/2019; 1 Month of 2nd. Year of 4 Year Lease Contract. FYZ 020: 10/01/2019 - 08/31/2020; 2nd. Year of 4 Year Lease Contract. FYZ 020: 10/01/2020 - 09/30/2020; 1 Month of 3rd. Year of 4 Year Lease Contract. FYZ 021: 10/1/20 to 8/31/21 3rd Year of 4 Year lease extension contract 09/01/21 to 09/30/21 1 month of 4th Year of 4 Year lease extension contract	\$ 0.10	546,383	\$ 546,383 \$	TriStar Terminals Guam	Pipeline Fees	A. 11
FY 2014: 09/01/2013 - 08/31/2014; 1st. Year of 5 Year Lease Contract Completed.; 09/30/2014; 1 Month of 2nd. Year of 5 Year lease contract; FY2015: 10/01/2014 - Year of 5 Year Lease Contract completed. 09/01/2015 - 09/30/2015; 1 Month of 3r lease contract; FY2016: 10/01/2015 - 08/31/2016; 3rd. Year of 5 Year Lease Contract; O9/01/2016 - 09/30/2016; 1 Month of 4 Year of 5 Year Lease contract; FY2017: 10/08/31/2017, 4th. Year of 5 Year Lease Contract Completed. 09/01/2017 - 09/30/2 Year Lease Contract Completed. FY2018: 10/01/2017 - 08/31/2018; 5th. Year of 5 Contract completed; 09/01/2018 - 09/30/2018; 1 Month of 1st. Year of 4-1 Year lease Contract Completed. 09/01/2018 - 08/30/2019; 1st. Year of 4-1 Year Lease Contract Completed. 09/01/2019 - 09/30/2019; 1 Month of 2nd. Year of 4-1 Year Lease Contract	\$ 252,656	1,200,012	\$ 1,452,668 \$	TriStar Terminals Guam	F-1 Dock Facility	A.10
CONTRACT YR	BUDGET BALANCE	FY2021 UNAUDITED ACTUALS as of 09/30/21	FY2021 ADJUSTED BUDGET	VENDOR	CONTRACTS CATEGORY	

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2	ဂ		B.4	B.3	B.2	B.1	В		A.13	
PMC - Cabras 1 & 2 (Fixed Management Fees)	FIXED MANAGEMENT FEES:	Total EPP	(PP - Principal, Interest, Energy Conversion	Engine Cylinder Oil	IPP - Recapitalization	IPP - Energy Conversion	IPP		DEF Charges (\$5.80/MWH and 8,098 MWH minimum energy offtake under the Aggreko's Contract Extension)	CONTRACTS CATEGORY
Temes			Aggreko	MEC	MEC	MEC			Aggreko / Yigo Diesel	VENDOR
\$ 1,915,037		10 67 A 18	\$ 3,619,258	\$ 2,640,957	\$ 3,764,013	\$ 10,550,599			\$ 1,003,319	FY2021 ADJUSTED BUDGET
\$ 1,915,037		9 78470/801	\$ 3,618,716	\$ 1,789,002	\$ 3,697,939	\$ 9,365,143				FY2021 UNAUDITED ACTUALS as of 09/30/21
es		\$ 2,104,028	\$ 542	\$ 851,955	\$ 66,074	\$ 1,185,456		e I Josephan	· · ·	BUDGET BALANCE
FY2021: 10/01/20 to 09/30/21 - 1st year of three year contract			FY2016: 01/09/2016 - 09/30/2016; 9 Months of 1 Year Base Contract. 10/01/2016 Year Base Contract Completed. FY2017: 01/09/2017 - 09/30/2017; 9 Months of 1s Option to Renew. FY2018: 10/01/2017 - 01/08/2018; 1st Year of 4 Year Option to R 01/09/2018 - 09/30/2018; 9 Months of 2nd Year of 4 Year Option to Renew. FY2018 01/08/2019; 2nd. Year of 4 Year Option to Renew Completed. 01/09/2019 - 09/30/2019; 91 of 4 Year Option to Renew. FY2020: 10/01/2019 - 01/08/2020; 3rd. Year of 4 Year Option to 01/09/2020 - 09/30/2020; 9 Months of 4th. Year of 4 Year Option to Renew. FY 2021: 10/01 4th. Year option to renew completed. CONTRACT COMPLETED.	FY2019: 10/01/2018 - 01/29/2019; 4 Months of remaining periods of original Energy Agreement with MEC. Amd.: I, 01/30/2019 - 09/30/2019; 8 Months of 1st. Year of Extension. Ref.: PUC-GPA Docket No.: 18-13, CCU Resolution No.: 2018-07, Amen Energy Conversion Agreement and CCU Resolution No.: 2021-01					FY2016: 01/09/2016 - 09/30/2016; 9 Months of 1 Year Base Contract. 10/01/2016 Year Base Contract Completed. FY2017: 01/09/2017 - 09/30/2017; 9 Months of 1sl Option to Renew. FY2018: 10/01/2017 - 01/08/2018; 1st Year of 4 Year Option to R 01/09/2018 - 09/30/2018; 9 Months of 2nd Year of 4 Year Option to Renew. FY2019: 01/08/2019; 2nd. Year of 4 Year Option to Renew Completed. 01/09/2019 - 09/30/2019; 91 of 4 Year Option to Renew. FY2020: 10/01/2019 - 01/08/2020; 3rd. Year of 4 Year Option to 01/09/2020 - 09/30/2020; 9 Months of 4th. Year of 4 Year Option to Renew. FY 2021: 10/01, 4th. Year option to renew completed. CONTRACT COMPLETED.	CONTRACT YR

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	<u> </u>	П		D.2	D.1				C.2	
	Property - Boiler, Machinery, Terrorism	INSURANCE PREMIUM	Assam Lating Action Professional	PMC - CT #1, #2, Macheche CT, Yigo CT	PMC - Cabras 1 & 2 (Routine Operation & Maintenance Expenses)	PMC O&M EXPENSE:		idial Fixed Managament Feas	PMC - CT	CONTRACTS CATEGORY
	AM Insurance			Temes	Temes				Temes	VENDOR
0.037,138	\$ 5,537,036			\$ 600,000	\$ 1,350,000			8 2 8 8 8 8	\$ 744,736	FY2021 ADJUSTED BUDGET
G ZGOVSOZO	\$ 5,293,932			\$ 581,556	\$ 1,349,982			57.77 (3.6.0) 7	\$ 744,736	FY2021 UNAUDITED ACTUALS as of 09/30/21
# 2017 EAST				18,445	\$ 18			E02	<b>\$</b>	BUDGET BALANCE
	FY 2019: OP NO.: 25845 - 11/01/2018 - 09/30/2019; 11 Months of 1st. Year of 3 Ye. PO# 27340: 10/01/2019 - 10/31/2019; 1st. Year of 3 Year Period Completed. 11/03 09/30/2020; 11 Months of 2nd. Year of 3 Year period.; FY2021: 10/1/20 to 10/31/20: period completed; 11/01/2020 to 09/30/21 11 months of 3rd year of 3 year period			In 2016: 03/01/2016 - 09/30/2016; / Months of 1st Year of 5 Year Base Contract. F 10/01/2016 - 02/28/2017; 1st Year of 5 Year Base Contract Completed. 03/01/2017; Months of 2nd Year of 5 Year Base Contract. FY2018: 10/01/2017 - 02/28/2018; 2r Base Contract Completed. 03/01/2018 - 09/30/2018; 7 Months of 3rd Year of 5 Year Base Contract Completed. 03/01/2018 - 09/30/2018; 7 Months of 3rd Year of 5 Year Base Contract Completed. 03/01/20 Months of 4th. Year of 5 Year Base Contract. FY2020: 10/1/19 to 02/28/20 4th Year of 5 Year Base Contract. FY2020: 10/1/19 to 02/28/20 4th Year of 5 Year Base Contract. FY2020: 10/1/19 to 09/30/21 - 7 months of 5/201/20 to 09/30/20 - 7 months of 5th Year of 5 Year Base Contract. FY2021 02/28/21 5th Year of 5 Year Base Contract Completed; 03/01/21 to 09/30/21 - 7 months of 12/28/21 5th Year of 5 Year Base Contract Completed; 03/01/21 to 09/30/21 - 7 months of 12/28/21 5th Year of 5 Year Base Contract Completed; 03/01/21 to 09/30/21 - 7 months of 12/28/21 5th Year of 5 Year Base Contract Completed; 03/01/21 to 09/30/21 - 7 months of 12/28/20 + 09/20/21 - 7 months of 12/28/20 + 09/20/20 - 09/20/20 - 09/20/20 - 09/20/20 - 09/20/20 - 09/20/20 - 09/20/20 - 09/20/20 - 09/20/20 - 09/20/20 - 09/20 - 09/20/20 - 09/20/20 - 09/20/20 - 09/20/20 - 09/20/20 - 09	FY2021: 10/01/20 to 09/30/21 - 1st year of three year contract				FY 2016: 03/01/2016 - 09/30/2016; 7 months of 1st. year of 5 year base contract. In 10/01/2016 - 02/28/2017; 1st. year of 5 year base contract completed. 03/01/201 months of 2nd. year of 5 year base contract. FY 2018: 10/01/2017 - 02/28/2018; 2 base contract completed. 03/01/2018 - 09/30/2018; 7 months of 3rd year of 5 year base contract completed. 03/01/2018 - 09/30/2018; 7 months of 3rd year of 5 year base contract completed.; 0 09/30/2019; 7 months of 4th. year of 5 year base contract. FY2020: 10/1/2019 to year of 5 year base contract completed; 03/01/2020 to 09/30/2020 - 7 months of base contract. FY2021: 10/1/2020 to 02/28/2021 5th year of 5 year base contract of 5 year base contract.	CONTRACT YR

### BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

PETITION TO APPROVE CONTRACT )
AMENDMENTS WITH DUENAS )
CAMACHO AND ASSOCIATES, INC. )
TO COMPLETE PHASE 3 TANK )
INSPECTION AND REPAIRS, DISTRICT )
METERING AND PRESSURE ZONE )
REALIGNMENT, DEEP WELLS GAC )
SYSTEM INSTALLATION AND )
REHABILITATION, AND WATERLINE )
REPLACEMENTS. )

**GWA DOCKET 22-03** 

ORDER



### **INTRODUCTION**

This matter comes before the Guam Public Utilities Commission (the "PUC" or the "Commission") pursuant to the Petition to Approve Contract Amendments with Duenas Camacho & Associates, Inc. to Complete Phase 3 Tank Inspection and Repairs, District Metering and Pressure Zone Realignment, Deep Wells GAC System Installation and Rehabilitation, and Waterline Replacements (the "Petition"), filed by the Guam Waterworks Authority ("GWA") on November 18, 2021.

On November 30, 2021, the Administrative Law Judge of the PUC (the "ALJ") assigned to this matter filed an ALJ Report that included his findings and recommendations based on the administrative record before the PUC. The ALJ found the following.

### **DETERMINATIONS**

In June 17, 2019, GWA entered into an Indefinite Delivery/Indefinite Quantity ("IDIO") contract with Duenas, Camacho & Associates, Inc. (also referred to herein as

"DCA" or the "Contractor") for Project and Construction Management services.<sup>1</sup> The initial task orders under this contract concerned construction management for the Tank Repairs and Bypass project; construction management for the Tai Road/S-14 and Toto-Canada/Blas Street Waterline Replacement project; and project and construction management services for the Ugum Water Treatment Plant Rehabilitation.<sup>2</sup> The contract was subsequently amended to include an additional task order, issued back in July, related to the management of the Yigo Sewer Pump Station Flood Mitigation and Facility Rehabilitation construction project.<sup>3</sup> This amendment increased the total amount of the contract from \$750,000,00 to \$846,164,00.<sup>4</sup>

On October 26, 2021, the Consolidated Commission on Utilities (the "CCU") issued GWA Resolution No. 04-FY2022, which approved an additional \$2,000,000.00 of funding to the DCA contract.<sup>5</sup> The CCU authorized this expenditure in order "to enable execution of multiple task orders, to include Project Management and Construction Management for Phase 3 Tank Inspection and Repairs; Construction Management of District Metering Area (DMA) and Pressure Zone Realignment (PZR) Construction; Construction Management of Deep Wells A-23 and A-25 GAC [Filter] System

Petition to Approve Contract Amendments with Duenas Camacho and Associates, Inc. to Complete Phase 3 Tank Inspection and Repairs, District Metering and Pressure Zone Realignment, Deep Wells GAC System Installation and Rehabilitation, and Waterline Replacements, pp. 1-2 (Nov. 18, 2021).

Petition, pp. 1-2.

Petition, p. 2.

<sup>&</sup>lt;sup>4</sup> Petition, p. 2.

<sup>&</sup>lt;sup>5</sup> GWA Resolution No. 04-FY2022, issued by the Consolidated Commission on Utilities, pp. 2-3 (Oct. 26, 2022) (hereinafter referred to as the "Resolution").

Installation"; construction management for the rehabilitation of Groundwater Wells A-02, A-12, D-05, and F-03; and construction management for the Waterline Replacement project.<sup>6</sup>

### A. Review of GWA's ID/IQ Contract with Duenas, Camacho & Associates for Project and Construction Management Services

Pursuant to 12 G.C.A. §12105,<sup>7</sup> GWA may not enter into any contractual agreements or obligations which could increase rates and charges without the PUC's express approval. Additionally, pursuant to GWA's Contract Review Protocol issued in Administrative Docket 00-04, "[a]ll professional service procurements in excess of \$1,000,000" require "prior PUC approval under 12 G.C.A. §12004, which shall be obtained before the procurement process is begun . . . ." GWA must also seek PUC's approval for any uses of bond funds. In this instance, the authorization sought for additional funding to the DCA contract is above \$1,000,000.

### B. <u>GWA's Request for Approval of Additional Task Orders with DCA,</u> Costs, and Funding

The original IDIQ contract between GWA and DCA encompasses engineering services, which include project management, construction management, survey services, and utility consulting engineering services. In its Petition, GWA requests that the PUC

<sup>&</sup>lt;sup>6</sup> Resolution, pp. 2-3.

<sup>&</sup>lt;sup>7</sup> Formerly 12 G.C.A. §12004.

<sup>&</sup>lt;sup>8</sup> GWA's Contract Review Protocol ("GWA CRP"), Administrative Docket 00-04, p. 1 (Oct. 27, 2005).

<sup>&</sup>lt;sup>9</sup> Id.

authorize an additional \$2,000,000.00 for the DCA contract.<sup>10</sup> According to GWA, the additional funding will allow GWA to issue additional task orders related to the following projects: (1) Project and Construction Management for Phase 3 Tank Inspection and Repairs; (2) Project and Construction Management of District Metered Areas and Pressure Zone Realignment; (3) Construction Management of Deep Wells A-23 and A-25 GAC [Filter] System Installation; (4) Construction Management for the Rehabilitation of Groundwater Wells A-02, A-12, D-05, and F-03; and (5) Construction Management for Waterline Replacement Construction project.<sup>11</sup> GWA has also added a contingency of \$150.000.00.<sup>12</sup>

With respect to the Phase 3 Tank Inspection and Repairs project, GWA estimates the cost of this task order at around \$600,000.00. According to GWA, this budget is comprised of about \$120,000.00 for pre-inspection and inspection services; and about \$460,000.00 for repairs completed by a subcontractor. The budget also includes \$10,000.00 in expenses.

With respect to the District Metering Area and Pressure Zone Realignment project, GWA estimates the cost of this task order at around \$200,000.00. This budget is comprised of about \$190,000.00 in pre-construction, construction, and post-construction services; and about \$10,000.00 in expenses.

Petition, p. 2.

Petition, pp. 2-3.

Petition, p. 3.

Regarding the Deep Well GAC System Installation project, GWA estimates the cost of this task order at around \$200,000.00, which includes a budget of about \$190,000.00 in pre-construction, construction, and post-construction services; and about \$10,000.00 in expenses.

Regarding the Rehabilitation project for the Groundwater Wells, GWA estimates the cost of this task order at around \$640,260.80, which includes a budget of about \$530,000.00 in pre-construction, construction, and post-construction services; about \$76,650.00 for the subcontractor's work; and about \$32,200.00 in expenses.

Finally, concerning the Waterline Replacement Construction project, GWA submits that this task order will cost an estimated \$200,000.00, which includes a budget of about \$190,000.00 in pre-construction, construction, and post-construction services; and about \$10,000.00 in expenses.

GWA submitted that the additional task orders will be paid for by GWA Bond funds or other funding sources.<sup>13</sup>

### C. Board Resolution No. 04-FY2022

The instant request is supported by GWA Resolution No. 04-FY2022. In the Resolution, the CCU approved the additional \$2,000,000.00 of funding for the DCA contract.<sup>14</sup> In the Resolution, the CCU found that these projects will allow GWA to continue "to make improvements to the water system", which "will improve water supply, reduce water loss, create pressure zones, repair/maintain water storage reservoirs, and

Petition, p. 3; Resolution, p. 2.

Resolution, pp. 2-3.

install new waterlines . . . ."<sup>15</sup> The CCU further submitted that these projects are in line with the CCU's Five Year Capital Improvement Program that addresses the 2011 federal court order; EPA compliance requirements; and other regulatory priorities.<sup>16</sup>

As indicated in the Resolution, the additional task orders under the contract aligns with the CCU's Five Year Capital Improvement Program that addresses the 2011 federal court order; EPA compliance requirements; and other regulatory priorities. And indeed, there is much work to be done to increase water supply, reduce water loss, along with other improvements to the water system and infrastructure. The projects managed under the DCA contract would bring GWA closer to these objectives. As indicted in prior GWA dockets, a consulting engineer's role is especially crucial in these instances where GWA lacks resources in project and construction management.

Further, this Commission has expressed its steadfast concern over GWA's water loss management. The launch of the District Metered Areas and Pressure Zone Realignment projects, and continuation of its Waterline Replacement project, endeavor to stem GWA's water losses. According to GWA's 2020 Audit by Deloitte, the realignment of pressure zones will "employ piping and pressure-control valve installation in distinct zones across the water distribution network to reduce background water losses," specifically in "instances where losses occur at pipe joins and other locations in quantities/flow rates which do not surface and are therefore not visually detectable or

Resolution, p. 2.

<sup>16</sup> Resolution, p. 2.

<sup>17</sup> Resolution, p. 2.

reported."<sup>18</sup> In addition, the implementation of District Metered Areas will help GWA focus its repair efforts to further reduce water losses.<sup>19</sup>

In addition, according to an August 8, 2018 news article in the Stars and Stripes, Guam, "GWA's A-23 and A-25 are two other wells that had significant levels for [the compound perfluorooctane sulfonate] PFOS." "According to GWA, the wells without treatment have been turned off while GWA works on procuring GAC systems for these sites to protect the public." In the article, GWA's General Management is quoted as stating that "GAC is a multi-stage filtration type system that is installed at the water well which is designed to treat the water for specific organic materials such as PFAS and related constituents by adsorption onto the carbon of the filter." The installation of a GAC filtration system will allow Deep Wells A-23 and A-25 to be usable.

Based on this record, and for the other reasons set forth herein, the ALJ recommended that the PUC authorize the amount of \$1,681,058.00 which reflects actual costs submitted by GWA, to enable GWA to issue additional task orders to the June 17, 2019 IDIQ contract with DCA.

<sup>&</sup>lt;sup>18</sup> Independent Auditor's Report for 2020 and 2019, prepared by Deloitte ("2020 Deloitte Audit"), p. 15 (Mar. 19, 2021).

<sup>&</sup>lt;sup>19</sup> 2020 Deloitte Audit, p. 15.

https://guam.stripes.com/community-news/one-guam-partnership-keep-guams-drinking-water-clean-and-safe.

https://guam.stripes.com/community-news/one-guam-partnership-keep-guams-drinking-water-clean-and-safe.

https://guam.stripes.com/community-news/one-guam-partnership-keep-guams-drinking-water-clean-and-safe.

The ALJ did not recommend any additional contingency amount since all PUCapproved GWA contracts are already subject to 20% contingency above an authorized amount.

The Commission hereby adopts the findings in the October 25, 2021 ALJ Report and therefore issued the following.

### **ORDERING PROVISIONS**

Upon careful consideration of the record herein, and for good cause shown, on motion duly made, seconded and carried by the affirmative vote of the undersigned Commissioners, the Commission hereby ORDERS the following:

- 1. That the instant Petition is hereby APPROVED inasmuch as GWA is authorized to issue additional task orders to its contract with Duenas, Camacho & Associates, Inc., for the following projects: (1) Project and Construction Management for Phase 3 Tank Inspection and Repairs; (2) Project and Construction Management of District Metered Areas and Pressure Zone Realignment; (3) Construction Management of Deep Wells A-23 and A-25 GAC [Filter] System Installation; (4) Construction Management for the Rehabilitation of Groundwater Wells A-02, A-12, D-05, and F-03; and (5) Construction Management for Waterline Replacement Construction project.
- 2. That GWA is authorized to expend up to an additional \$1,681,058.00 for its current contract with Duenas Camacho and Associates, Inc.
- 3. GWA is ordered to pay the PUC's regulatory fees and expenses, including and without limitation, consulting and counsel fees, and the fees and expenses associated with this matter. Assessment of the PUC's regulatory fees and expenses is authorized Page 8 of 10

pursuant to 12 G.C.A. §§ 12103(b) and 12125(b), and Rule 40 of the Rules of Practice and Procedure before the PUC.

### [SIGNATURES TO FOLLOW ON NEXT PAGE]

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### **SO ORDERED** this 2<sup>nd</sup> day of December, 2021.

JEFFREY Ç. JOHNSON

Chairman

ROWENA E. PEREZ-CAMACHO
Commissioner

JOSEPH M. MCDONALD

Commissioner

PEDRO GUERRERO

Commissioner

MICHAEL A. PANGELINAN

Commissioner

PETER MONTINOLA

Commissioner

DÓRÍS FLORES BROOKS

Commissioner

P213069.JRA

### BEFORE THE GUAM PUBLIC UTILITIES COMMISSION

IN THE MATTER OF:	) GWA Docket 22-04	RECEIVED
THE PETITION OF THE GUAM WATERWORKS AUTHORITY TO APPROVE CONTRACT CHANGE ORDER NO. 2 WITH GIANT CONSTRUCTION CORP. FOR THE TAI ROAD/S-13 AND CANADA-TOTO LOOP/BLAS STREET WATERLINE REPLACEMENT PROJECT; GWA PROJECT NO. M19-001-BND.	) ) ) ) ORDER ) ) ) ) )	DEC 02 2021 Public William Commission GUNN CONTROL TO THE TOTAL TO THE

### **INTRODUCTION**

- This matter comes before the Guam Public Utilities Commission ["PUC"] upon the Petition of the Guam Waterworks Authority ["GWA"] for approval of Change Order No. 2 with Giant Construction Corp. for the Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement Project.<sup>1</sup>
- 2. Change Order No. 2 will upgrade the existing small diameter galvanized service laterals currently connected to the old 6-inch ACP line serving several homes along Taison Road, with a large 6-inch main to improve service levels, at a cost of \$558,135.00.2
- 3. Taison Road is a "branch road" connected to the Canada-Toto Loop. There are existing revenue meters all located at the intersection of Canada-Toto Loop/Taison

<sup>&</sup>lt;sup>1</sup> GWA Petition for Approval of Change Order No. 2 with Giant Construction Corp. for the Tai Road/S-13 and Canada-Toto Loop/Blas Street Waterline Replacement Project, GWA Docket 22-04, filed November 18, 2021.

<sup>&</sup>lt;sup>2</sup> Id., at p. 2.

Road. The meters are connected to the existing 6-inch ACP line and leading to long runs of 1 to 1 ¼ -inch galvanized pipe to the houses further down the road.<sup>3</sup>

### **BACKGROUND**

- 4. On April 29, 2021, the PUC approved the Tai Road/S13 and Canada-Toto Loop/Blas Street Waterline Replacement and the Contract with Giant Construction Corporation.<sup>4</sup>
- 5. The PUC determined that the project was necessary to address the increasing frequency of water outages in the Canada-Toto Loop area; the project would address recurring waterline breaks along the Tai Road/S13 and Canada-Toto Loop/Blas Street. Existing meters would be disconnected from an existing 6-inch asbestos cement pipe (ACP) and then reconnected to the existing 12-inch PVC water line.<sup>5</sup>
- 6. The project would also replace old and persistently leaking 2-inch and 6-inch ACP with new polyvinyl chloride (PVC) pipe ranging from 6-inches to 12-inches in diameter, including upgrade of service laterals of various lengths.<sup>6</sup>
- 7. The PUC authorized GWA to expend up to the amount of \$2,140,292.00 for the Contract with Giant Construction Corporation.<sup>7</sup>

<sup>&</sup>lt;sup>3</sup> GWA Resolution No. 03-FY2022, Relative to Change Order No. 2 Contract Approval for the Tai/Road/S13 and Canada-Toto Loop/Blas Street Waterline Replacement Project, p. 2, adopted and approved on October 26, 2021.

<sup>&</sup>lt;sup>4</sup> PUC Order, GWA Docket 21-03, dated April 29, 2021, at p. 4.

<sup>&</sup>lt;sup>5</sup> Id., at p. 3.

<sup>6</sup> Id.

<sup>&</sup>lt;sup>7</sup> Id., at p. 4.

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- 8. After the PUC approved the Contract award, GWA Management negotiated Change Order No. 1 with Giant Construction, to obtain the services of an archeological firm to prepare the archeological research design for the Tai Road and Blas Street/Canada-Toto Loop intersection as required by the Department of Parks and Recreation/State Historic Preservation Office.8
- 9. The cost of Change Order No. 1 is \$16, 318.00.9
- 10. On October 26, 2021, the CCU approved GWA Resolution No. 03-FY2022.<sup>10</sup> GWA was authorized to expend \$558,135.00 for Change Order No. 2, subject to PUC review and approval.<sup>11</sup> Funding for the Change Order will be from 2020 Bonds under the MP-PW Pipe-12 Rehabilitation and Replacement Program funds.<sup>12</sup>
- 11. Change Order No. 2 changes the existing contract scope with Giant Construction Corporation to replace the existing 1 to 1 ¼-inch galvanized pipe along Taison Road with new 6-inch diameter PVC pipes, installs fire hydrants for fire protection, and relocates existing service water meters from the entrance of Taison Road to the front of each house.<sup>13</sup>

<sup>&</sup>lt;sup>8</sup> GWA Resolution No. 03-FY2022, Relative to Change Order No. 2 Contract Approval for the Tai/Road/S13 and Canada-Toto Loop/Blas Street Waterline Replacement Project, p. 2, adopted and approved on October 26, 2021, at p. 3.

<sup>9</sup> Id.

<sup>&</sup>lt;sup>10</sup> GWA Resolution No. 03-FY2022, Relative to Change Order No. 2 Contract Approval for the Tai/Road/S13 and Canada-Toto Loop/Blas Street Waterline Replacement Project, p. 2, adopted and approved on October 26, 2021.

<sup>11</sup> Id., at p. 2.

<sup>12</sup> Id., at p. 3.

<sup>&</sup>lt;sup>13</sup> Id., at p. 2.

### **DETERMINATIONS**

12. After the PUC approved the initial project with Giant, it became apparent to GWA that the project did not include Taison Road, a branch road connected to the Canada-Toto Loop having existing revenue meters all located at the intersection of Canada-Toto/Taison Road.<sup>14</sup>

13. The Taison Road Revenue meters were connected to the existing 6-inch ACP line and leading to long runs of 1 to 1 ¼ -inch galvanized pipe to the houses further down Taison Road. 15

14. This configuration of service lateral connection to residents along Taison Road resulted in water flow and pressure issues which would not be improved by the original scope of construction of the water line replacement at the Canada-Toto Loop.<sup>16</sup>

15. On August 13, 2021, Giant Construction Corp. submitted a proposal for the Taison Road 6-inch PVC waterline and service lateral and connection work to GWA. The Taison Road Waterline Project was approved by GWA's consultant, Duenas, Camacho & Associates ["DCA"]. DCA indicated that the Giant proposal was in response to additional requirements GWA had under the original bid project to

<sup>&</sup>lt;sup>14</sup> Id.

<sup>15</sup> Id.

<sup>&</sup>lt;sup>16</sup> Id.

install new 6-inch waterline along Taison Road and to replace existing 2-inch waterline. DCA Inc. recommended approval of Change Order No. 2.<sup>17</sup>

- 16. A copy of the Giant Construction proposal for Change Order No. 2 is attached to the ALJ Report as Exhibit "1".
- 17. While Change Order No. 2, and the Taison Road work, expand the scope of the original bid, such works appears to be entirely consistent with the intent of the original bid. Taison Road is a "branch road connected to the Canada-Toto Loop." However, if Taison Road is not included in the project, water flow and pressure issues will not be improved for the residents of Taison Road in accordance with the original scope of construction of the waterline replacement at Canada-Toto Loop.
- 18. The work under the proposed change order is consistent with the original scope of the project. The parties are also authorized to negotiate change orders under the project.
- 19. GWA's consultant, DCA, approved Change Order No. 2 as being consistent with the original scope of the project.
- 20. For the same reason set forth by the PUC in its Order approving the original project in GWA Docket 21-03, Change Order No. 2 should also be approved: these Taison Road breakage and pressure issues remain and cannot be addressed under the prior and initial scope of construction.

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<sup>&</sup>lt;sup>17</sup> CCU Resolution No. 03-FY2022, at Exhibit A.

- 21. Serious water and pressure issues have caused problems for the customers in the area, including Taison Road. The PUC found that these issues should be addressed as soon as possible, and that the project was also consistent with the PUC-GWA goal of reducing non-revenue water loss, as well as to improve the system where service delivery has been below standard.<sup>18</sup>
- 22. Including Change Orders No. 1 and No. 2, the total approved contract amount would now be \$2,520,173.00.

### ORDERING PROVISIONS

Upon consideration of the record herein, the Petition of GWA for Approval of Change Order No. 2 with Giant Construction Corporation, the ALJ Report, and for good cause shown, on motion duly made, seconded, and carried by the affirmative vote of the undersigned Commissioners, the Commission hereby **ORDERS** that:

- 1. Change Order No. 2 for the Taison Road waterline and service lateral and connection work is approved.
- 2. GWA is authorized to expend up to the amount of \$2,520,173.00 for the Contract with Giant Construction Corporation.
- 3. As to the additional cost of \$\$558,135.00 for Change Order No. 2, the usual cost contingency of 20% indicated in GWA's Contract Review Protocol shall apply.

<sup>&</sup>lt;sup>18</sup> PUC Order, GWA Docket 21-03, dated April 29, 2021, at p. 4.

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- 4. GWA shall file an executed copy of Change Order No. 2 with the PUC when completed.
- 5. GWA is ordered to pay the Commission's regulatory fees and expenses, including, without limitation, consulting and counsel fees and the fees and expenses of conducting the hearing proceedings. Assessment of PUC's regulatory fees and expenses are authorized pursuant to 12 GCA §§12103(b) and 12125(b), and Rule 40 of the Rules of Practice and Procedure before the Public Utilities Commission.

[SIGNATURES TO FOLLOW ON NEXT PAGE]

Dated this 2nd day of December 2021.

Jeffrey C. Johnson

Chairman

Jøseph M. McDonald

Commissioner

Peter Montinola Commissioner

Pedro S.N. Guerrero

Commissioner

Rowena E. Perez-Camacho

Commissioner

Michael A. Pangelinan

Commissioner

Doris Flores Brooks

Commissioner